DOCUMENT RESUME

ED 303 733 CG 021 432

TITLE	Minnesota Health Statistics 1986. (36th Annual Summary Report).
INSTITUTION	Minnesota State Dept. of Health, Minneapolis. Center for Health Statistics.
PUB DATE	Oct 88
NOTE	163p.
PUB TYPE	Statistical Data (110) -- Reports - Research/Technical (143)
EDRS PRICE	MF01/PC07 Plus Postage.
DESCRIPTORS	Abortions; *Birth Rate; *Death; Demography; Divorce; *Health; Infant Mortality; *Marriage; Occupational Diseases; *Occupational Safety and Health; Population Trends
IDENTIFIERS	*Minnesota; *Vital Statistics

ABSTRACT

This annual summary of vital statistics from the state of Minnesota contains technical notes on changes in the summary format, sources of data, data quality, geographic allocation, and definition of rates. A total of 63 data tables and 13 figures are provided in the areas of: (1) an overview of 1986 vital statistics; (2) live births; (3) reported induced abortions; (4) fertility; (5) infant mortality and fetal deaths; (6) general mortality; (7) marriage; (8) divorce; (9) occupational illness and injury; and (10) population. The appendices contain definitions of terms, data collection instruments, and a map of Minnesota health districts and offices. (NB)

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MINNESOTA

HEALTH STATISTICS

1986

Published October, 1988

Minnesota Department of Health
Minnesota Center for Health Statistics
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P.O. Box 9441
Minneapolis, Minnesota 55440

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FOREWORD

Minnesota Health Statistics 1986 was prepared by the Minnesota Center for Health Statistics of the Minnesota Department of Health and is the 36th annual summary of vital statistics published by the Department. The document also responds, in part, to the requirements of a contract held with the United States Department of Health, Education, and Welfare to establish and implement a cooperative health statistics program for Minnesota.

If you have suggestions concerning the report format, queries concerning the data formulae used in developing the statistics, or if you have requests for additional statistics or other related publications, please contact:

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Introduction

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TECHNICAL NOTES

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A. CHANGES IN FORMAT

1986 marks the first year for which new data contained on the revised marriage dissolution collection instrument initiated in 1985 (see Appendix B, Figure 11) were analyzed. Several new tables pertaining to dissolution or annulment of marriages occurring in Minnesota appear in this 1986 publication.

B. SOURCES OF DATA

Vital Events

Birth, death, and fetal death certificates are the source documents for data on vital events of Minnesota residents filed with the Section of Vital Statistics Registration within the Minnesota Department of Health during the 1986 calendar year. A sample copy of each of these types of certificates is included in Appendix B, Figures 8-10, pages 161-163. Marriage and divorce data are compiled from statistical report forms and summary worksheets submitted to the Section of Vital Statistics Registration by each County Court Administrator.

The cut-off date for 1986 vital events data in this report was August 1, 1987. Any data pertaining to a 1986 event for which a certificate was filed after August 1, 1987 are not included in this report. It is possible that future data obtained from the MCHS may differ slightly from that which appears in this report. If this should occur, it is due to an update to the 1986 data year which was made after the August 1 deadline.

Events relating to Minnesota residents which occurred in another state are included in this report.[1] The inclusion of these data is made possible by an agreement for resident exchange of copies of certificates among all registration areas in the United States.

Birth and fetal death certificates are usually completed by hospital personnel present at the delivery. Death certificates are usually completed by hospital personnel, physicians, and funeral directors.

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[1] No marriage and divorce reports are included in the interstate exchange program for vital events. All marriage and divorce data are Minnesota occurrences.

Reported Induced Abortions

The Minnesota Abortions Surveillance is a statewide reporting system involving provider agencies throughout Minnesota. Follow-up to facilities known to perform abortion procedures has been conducted to enlist all possible sources of abortion data, yielding the present 25 data providers enrolled in the system. A "Report of Induced Abortion" form is completed by provider agency staff for each abortion performed. A sample copy of the report form is included in Appendix B, Figure 12, page 165.

Population

The methods for development of age and gender were revised in 1987 by the Minnesota Center for Health Statistics in order to produce 1985 population estimates. Population estimates for 1986 were produced using the same methodology and are included on pages 140 through 150 of this publication. The following procedures were used:

1) The most current Minnesota age/sex population estimates produced by the U.S. Bureau of the Census were obtained. (These age/sex estimates were done by the Census Bureau to fulfill contractual obligations with the National Cancer Institute.) At the time our estimates were devised, Census Bureau data for calendar year 1984 remained the latest available. Those data are aggregated by county, sex and five-year age groups through 84 years of age.

2) The proportion of the total for each age/sex group by sex was computed. These proportions were fitted to the reported proportions of the 1980 U.S. Census. The proportions most frequently fitted to the 1980 Census involved teenage and young adult cohorts.

3) Those proportions were applied to the total county population estimates which are published annually by the Office of the State Demographer within the State Planning Agency. This resulted in revised county five-year age group and gender totals. Any rounding errors were eliminated by adjusting the 85 and over age group. The resulting county totals were thus forced to match the 1986 totals published by the Office of the State Demographer.

4) Adjustments are again made in the age/sex estimates to reconcile the 65 and over population county estimates to equal the county Medicare enrollment. Excess or shortfalls in the 65 and over age cohort are distributed proportionately among the under 65 age chorts. County totals remain identical to the State Demographer's totals.

5) Census data from 1980 were used to compute proportions of age/gender groups for selected cities within their counties of location. Those calculated proportions were applied to the 1986 revised age/gender county estimates to produce 1986 city age/gender preliminary estimates. Further refinements were then made to adjust city totals to equal total city estimates published by the Office of the State Demographer.

Occupational Injuries and Illnesses

The basic source document for the Supplementary Data System (SDS) of occupational injuries and illnesses is the "First Report of Injury" submitted by employers to the Minnesota Department of Labor and Industry, Worker's Compensation Division. A sample copy of the "First Report of Injury" is included in Appendix B, Figure 13, page 166.

The Supplementary Data System covers all employees in the state who fall within the scope of the Worker's Compensation Act. This excludes railroads in interstate commerce, most farm operations, casual employment not in the usual course of trade or business, and household workers earning less than $500 per quarter. In particular, it should be noted that small farm employees (less than 11 employees) are exempt from the OSHA act including the reporting of fatalities and multiple hospitalizations and participation in the annual occupational survey. Farm employers whose only workers are members of the employers' immediate family or are neighbors are also exempt. Any work-related illnesses or injuries which cause a loss of three or more days of work are required to be reported.

C. DATA QUALITY

Vital Events

The quality of data presented in this report is directly related to the completeness and accuracy of the information contained on the certificates. The MDH maintains two major program operations related to improving the quality of information received on certificates in order to ensure that the information is as complete and accurate as possible.

The query program is a system used to contact hospital personnel, funeral directors, and/or physicians concerning incomplete or conflicting information. The follow-up contact is usually done by telephone and is based on both manual and computer editing procedures.

The field program attempts to improve certificate information by educating participants in the vital registration system, i.e., hospital personnel, funeral directors, physicians, coroners, and medical examiners of the uses and importance of vital statistics data. The field program completes this mission by conducting seminars with various associations and makes site visits when problems with registration relating to a particular event, area or institution are discovered.

The National Center for Health Statistics (NCHS) monitors Minnesota's coding of statistical data. NCHS has established a two percent upper limit for coding differences involving any one data item, with the exception of cause of death. A five percent limit is established for this item due to the complexity of the coding process.

The Minnesota Department of Health implemented multiple cause coding on death certificates for the final quarter of 1983. All factors contributing to the death which are mentioned on the death certificate are coded using the Ninth Revision of the International Classification of Diseases (ICD-9) and underlying cause is determined through a series of special computer programs--the Automated Classification of Medical Entities (ACME).

The ACME system provides not only traditional underlying cause statistics, but also multiple cause data which may be tailored for other indepth research and analysis. Planning is underway for future analyses and publication of multiple cause data.

In order to conform to the National Centers for Disease Control's changes in cause of death terminology regarding violent deaths, some changes in cause of death labels were incorporated into the 1984 death tables. Cause of death labels within Tables 38-41 and 44, which previously contained the term "accidents", were changed to "unintentional injury." This change only effects terminology as no change in actual ICD coding has occurred.

Another item to note is that all natality tables which include birth weight specific data were modified in 1983 to provide statistics for identification of live births under 2,500 grams. The tables affected are Tables 9, 10 and 36. This modification was necessary for compliance with national standards which define low birth weight as less than 2,500 grams.

The marriage dissolution report was initiated across all Minnesota counties in 1985 and contains numerous new data items. Item completeness in 1985 was poor as is often the case with new collection activity. Analysis of these data were initiated when the 1986 data year was completed. Item completeness for 1986 remained deficient with some items forty percent incomplete. This is in part due to a number of counties continuing to send lists (names, ages and dates of decree) rather than the individual report forms.

Caution is advised in interpretation of the detailed dissolution tables contained in this report due to these missing data. A short narrative pertaining to dissolutions precedes the dissolution tables

(Tables 49 through 55, pages 119 through 125) and explains the new tables and limitations of these data.

Reported Induced Abortions

The quality of data pertaining to induced abortions is dependent on the completeness and accuracy of the report forms submitted by provider facilities. A combination of computer and manual editing enables MCHS personnel to identify errors on records and take necessary corrective steps. Year-end reports are prepared for individual provider facilities to allow them to make comparisons with their own records and to report differences to MCHS. MCHS then studies the differences and makes necessary adjustments.

Changes have occurred in administrative record keeping by abortion providers. New records management systems have made it very difficult for some providers to match the "Report of Induced Abortion" forms to individual patient records due to lack of unique identifiers. These changes have created a greater margin for error in reporting since facilities are unable to easily locate individual records for correction of questionable reports.

In 1984 a revised reporting form was introduced. Changes were made in three data categories: contraceptive use, abortion method, and complications or failures. The changes were made in order to clarify data, simplify reporting, and reduce errors.

Prior to 1984 the "Report of Induced Abortion" form requested information on clients' reported contraceptive use. The five responses on the form were: "never used," "have used but discontinued use," "was using at conception" (method failure), "use status unknown," and "interrupted use" (intended to differentiate between human error or the choice not to contracept and method failures). Both the "interrupted use" and "method failure" response asked for further information on the type of contraception used as indicated by the client. For that reason, retrieval of data on "method failures" by type of contraception was not possible since "interrupted use" cannot be considered actual method failure.

In order to collect data on method failures only, the contraceptive use category was modified in 1984 to report use "at time of conception" only. Four responses are now offered: "unknown," "never used," "have used but not at conception," and "method use at conception" (method failure). Only the fourth response, "method failure" requires further action relative to type of contraceptive used. This restructuring of requested information clarifies the contraceptive method data reported.

In 1984, the list of contraceptive methods was also revised: oral contraceptives were categorized into combination pills and mini-pills;

the sponge, cervical cap, fertility awareness, and spermicidal jelly/cream (alone) were added; and the "none" category was eliminated.

Also in 1984, response choices in the Abortion Method category were rearranged and the names of the methods updated. The "combination" response was eliminated and replaced with "other (please specify)______." These changes allow for easier correction and verification of questionable responses.

The Complications or Failures category was restructured into minor (did not require hospitalization) and major (did require hospitalization) with treatment options offered for each as a means of verifying coding intentions. The complications response choices remained unchanged, with two responses (heavy bleeding/hemorrhage and infection) listed under both "minor" and "major" complications. These changes and the differences between minor and major complications were determined with the assistance of provider agencies' staff.

Population

The 1986 population estimates used in this publication are the only known source of population data by age group, sex and county available at the time of publication of this report. In 1980, the census data were used to estimate the state population. These data were considered to be highly accurate due to various checking and follow-up procedures. The 1981 through 1986 estimates are postcensal estimates, and a modified version of the cohort-component method was used in their production. The cohort-component method is an established method of estimating population and is normally very accurate if birth, death, census and migration data are of good quality. Although these estimates are not as accurate as an actual census, they are still very useful estimators of the actual population of Minnesota. All rates in this publication have been calculated using these 1986 population estimates as a denominator.

Since the method for producing estimates was modified after the 1984 publication, age/sex estimates for some counties may show some marked changes between 1984 and 1986. Therefore, caution is advised in interpreting changes in age-specific rates, since the differences may be artifacts rather than meaningful observations.

Occupational Injuries and Illnesses

Nature of Injury or Illness, Source of Injury or Illness, Type of Accident and Part of Body Affected are coded according to ANSIZ 16.2--1962 "Method of Recording Basic Facts Relating to the Nature and Occurrence of Work Injuries." Occupations are coded using Census Bureau Codes. Industries are coded using four digit Standard Industry Classification Codes.

The quality of occupational injuries and illnesses data is related to the completeness and the accuracy of coding the "First Report of Injury." Extensive input editing by computer edit programs is performed on basic codes. Also, periodic reviews by Regional Bureau of Labor Statistics personnel are performed to audit the coding function.

D. GEOGRAPHIC ALLOCATION

Vital Events

Vital events can be classified geographically in two ways. The first way is by place of occurrence, i.e., the actual state, county and minor civil division in which the birth or death took place. The second and more customary way is by place of residence, i.e, the state, county and minor civil division stated to be the usual residence of the decedent in the case of deaths or of the mother in the case of a newborn. Fetal deaths and infant deaths, in cases where the child was never discharged from the hospital, are classified to the residence of the mother.

While occurrence statistics are accurate and have both administrative value and some statistical importance, residence statistics are the more useful tool when constructing health indices for planning and evaluation purposes. The statistics provided in this report are residence data unless otherwise stated.

Allocation of vital events by place of residence is sometimes difficult, because classification depends entirely on the statement of the usual place of residence furnished by the informant at the time the original certificate is completed. For various reasons, this statement may be incorrect or incomplete. For example, mailing addresses very often differ from the actual geographic residence.

Where the mailing address is a rural delivery number or when an unincorporated place is given as the place of residence, it is seldom possible to allocate the event to a specific township or the correct minor civil division, if this information is not supplied. How often incorrect information on residence is recorded is not known, but it is generally due to lack of information concerning the exact location of residence or misunderstanding of the question on the part of the informant.

This problem is applicable generally only to minor civil division level data. Resident counts for the state as a whole are, for all practical purposes, very accurate. County resident figures are substantially correct and can be used with a high degree of confidence.

Each of Minnesota's 87 counties is classified into one of eight health districts. Some data presented in this report are aggregated by MDH health district. Appendix C is a map showing the county distribution of the health districts in Minnesota.

Reported Induced Abortions

Data on induced abortions are collected and coded to the county and minor civil division of residence of the recipient. The quality of geographic allocation is highly suspect due to total dependence on the patient responses at the time of the procedure.

This report does not include county level tables due to the chance of inadvertent disclosure of individual identity. However, a map illustrating county totals in ranges is included as Figure 7, page 67.

Population

The 1986 population estimates by age group and sex are available at the state and county level, as well as estimates for Minneapolis, St. Paul and Duluth. Estimates of the 1986 population of every city and township outside the seven-county Twin Cities Metropolitan Area were created by the Office of the State Demographer. These estimates, however, are not broken down by age group or sex. Estimates of the population of cities and townships inside the seven-county Twin Cities Metropolitan Area were created by the Metropolitan Council.

E. DEFINITIONS OF RATES

Absolute counts of health-related events do not readily lend themselves to analysis and comparison between years and between various geographic areas because of population differences and the small number of reported events. These demographic differences include total number, age and sex distributions, and ethnic or racial differentials. In order to assess the health status of a particular population at a specified time, the absolute number of events is converted to a relative number such as a probability of living or dying, a rate, a ratio, or an index. This conversion is made by relating the crude number of events to the living population at risk in a particular area at a specified time.

The following types of rates are used in this report:

ABORTION RATE: The number of induced abortions per 1,000 females in the population of age 15 through 44 years.

AGE/CAUSE SPECIFIC DEATH RATE: Number of deaths from a specified cause within a specified age group per 100,000 population in the same age group.

AGE/SEX ADJUSTED DEATH RATE: Total rates for counties and cities are adjusted for age and sex on the basis of the state population.

AGE-SPECIFIC PREGNANCY RATE: Number of live births plus fetal deaths plus induced abortions to women in a specified age group per 1,000 females in the population comprising the same specified age group.

CRUDE BIRTH RATE: Number of live births per 1,000 population.

CRUDE DEATH RATE: Number of deaths per 1,000 population.

FERTILITY RATE: Total number of live births per 1,000 females in the population of age 15 through 44 years.

INFANT DEATH RATE: Deaths under one year of age per 1,000 live births.

NEONATAL DEATH RATE: Number of infants dying under 28 days of age per 1,000 live births.

OCCUPATIONAL INJURY AND ILLNESS RATE: Number of reported injuries or illnesses in a given industrial category per 1,000 workers in the same industrial category. The state rate is calculated excluding agricultural industry categories.

PERINATAL DEATH RATE: Number of fetal deaths of 20 weeks or more gestation plus the number of neonatal deaths (deaths to infants under 28 days of age) per 1,000 live births.

PREGNANCY RATE: Number of live births plus the number of fetal deaths plus the number of induced abortions per 1,000 females in the population of age 15 through 44 years.

SEX ADJUSTED-AGE SPECIFIC DEATH RATE: Specific age group rates for counties and cities have been adjusted for sex on the basis of the state population for the specific age group.

Overview of the 1986 Vital Statistics

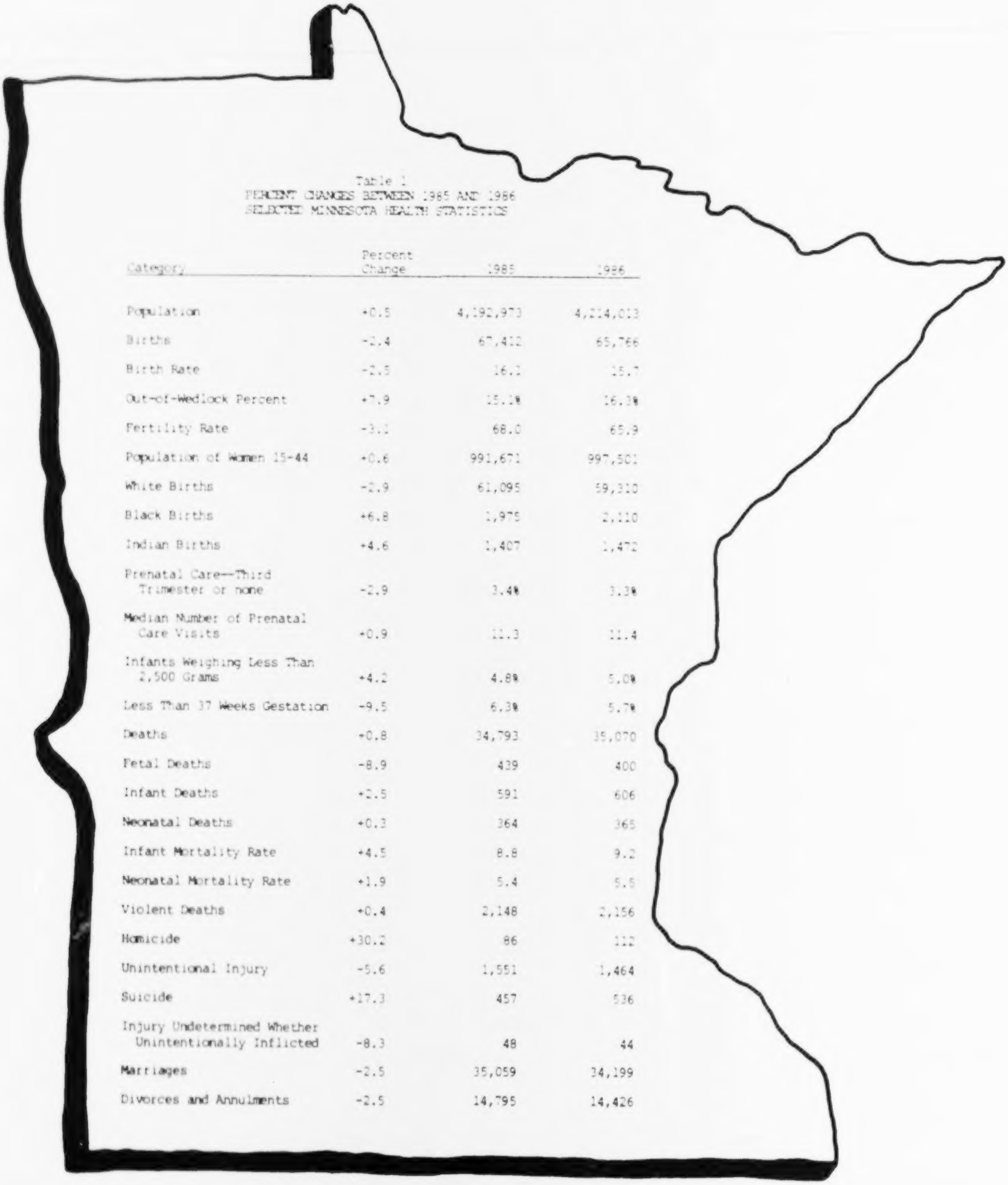

Table 1
PERCENT CHANGES BETWEEN 1985 AND 1986
SELECTED MINNESOTA HEALTH STATISTICS

Category	Percent Change	1985	1986
Population	+0.5	4,192,973	4,214,013
Births	-2.4	67,412	65,766
Birth Rate	-2.5	16.1	15.7
Out-of-Wedlock Percent	+7.9	15.1%	16.3%
Fertility Rate	-3.1	68.0	65.9
Population of Women 15-44	+0.6	991,671	997,501
White Births	-2.9	61,095	59,310
Black Births	+6.8	1,975	2,110
Indian Births	+4.6	1,407	1,472
Prenatal Care--Third Trimester or none	-2.9	3.4%	3.3%
Median Number of Prenatal Care Visits	+0.9	11.3	11.4
Infants Weighing Less Than 2,500 Grams	+4.2	4.8%	5.0%
Less Than 37 Weeks Gestation	-9.5	6.3%	5.7%
Deaths	+0.8	34,793	35,070
Fetal Deaths	-8.9	439	400
Infant Deaths	+2.5	591	606
Neonatal Deaths	+0.3	364	365
Infant Mortality Rate	+4.5	8.8	9.2
Neonatal Mortality Rate	+1.9	5.4	5.5
Violent Deaths	+0.4	2,148	2,156
Homicide	+30.2	86	112
Unintentional Injury	-5.6	1,551	1,464
Suicide	+17.3	457	536
Injury Undetermined Whether Unintentionally Inflicted	-8.3	48	44
Marriages	-2.5	35,059	34,199
Divorces and Annulments	-2.5	14,795	14,426

Table 2
RESIDENT LIVE BIRTHS, CRUDE BIRTH RATES*, AND FERTILITY RATES**, MINNESOTA AND UNITED STATES, 1940, 1945, 1950, 1955, 1960, 1965-1986

	Live Births		Crude Birth Rate*		Fertility Rate**	
Year	Minnesota	United States	Minnesota	United States	Minnesota	United States
1940	52,915	2,559,000	19.0	19.4	81.0	79.9
1945	54,656	2,858,000	20.9	20.4	85.1	85.9
1950	75,078	3,632,000	25.2	24.1	119.1	106.2
1955	81,532	4,097,000	25.7	25.0	130.1	118.3
1960	87,523	4,257,850	25.6	23.7	136.0	118.0
1965	70,810	3,760,358	19.7	19.4	105.9	96.3
1966	66,781	3,606,274	18.5	18.4	96.0	90.8
1967	64,532	3,520,959	17.6	17.8	96.8	87.2
1968	64,759	3,501,564	17.5	17.6	93.2	85.2
1969	65,961	3,600,206	17.6	17.9	90.5	86.1
1970	68,449	3,731,386	18.0	18.4	88.4	87.9
1971	62,498	3,555,970	16.2	17.2	78.2	81.6
1972	56,395	3,258,411	14.5	15.6	69.6	73.1
1973	53,783	3,136,965	13.8	14.8	65.4	68.8
1974	55,753	3,159,958	14.2	14.8	66.8	67.8
1975	56,463	3,144,198	14.4	14.6	65.4	66.0
1976	56,599	3,167,788	14.3	14.6	63.8	65.0
1977	60,284	3,326,632	15.2	15.1	66.8	66.8
1978	61,977	3,333,279	15.5	15.0	67.1	65.5
1979	65,325	3,494,398	16.1	15.6	69.0	67.2
1980	67,843	3,612,258	16.6	15.9	70.8	68.4
1981	68,652	3,629,238	16.7	15.8	71.0	67.4
1982	68,512	3,680,537	16.6	15.9	70.1	67.3
1983	65,559	3,638,933	15.8	15.5	66.8	65.8
1984	66,715	3,669,141	16.0	15.5	67.9	65.4
1985	67,412	3,760,561	16.1	15.8	68.0	66.2
1986	65,766	3,756,547	15.7	15.6	65.9	65.4

* Live Births per 1,000 Population
** Live Births per 1,000 Female Population of Ages 15-44

Table 3
NUMBERS AND RATES OF RESIDENT LIVE BIRTHS, DEATHS, AND MATERNAL DEATHS
MINNESOTA AND UNITED STATES,
1940, 1945, 1950, 1955, 1960, 1965-1986

	Live Births				Deaths				Maternal Deaths			
	Minnesota		United States		Minnesota		United States		Minnesota		United States	
Year	Number	Rate*	Number	Rate*	Number	Rate**	Number	Rate**	Number	Rate***	Number	Rate***
1940	52,915	19.0	2,559,000	19.4	26,354	9.4	1,417,269	10.8	115	217.3	8,876	376.0
1945	54,656	20.9	2,858,000	20.4	26,763	10.2	1,401,719	10.6	75	137.2	5,668	207.2
1950	75,078	25.2	3,632,000	24.1	27,897	9.4	1,452,454	9.6	43	57.3	2,960	83.3
1955	81,532	25.7	4,097,000	25.0	28,574	9.0	1,528,717	9.3	27	33.1	1,901	47.0
1960	87,523	25.6	4,257,850	23.7	31,596	9.3	1,711,982	9.5	13	14.9	1,579	37.1
1965	70,810	19.7	3,760,358	19.4	32,477	9.0	1,828,136	9.4	12	16.8	1,189	31.6
1966	66,781	18.5	3,606,274	18.4	33,222	9.2	1,863,149	9.5	12	18.0	1,049	29.1
1967	64,532	17.6	3,520,959	17.8	32,917	9.0	1,851,323	9.4	6	9.3	987	28.0
1968	64,759	17.5	3,501,564	17.6	33,890	9.2	1,930,082	9.7	5	7.7	859	24.5
1969	65,961	17.6	3,600,206	17.9	33,791	9.0	1,921,990	9.5	11	16.7	801	22.2
1970	68,449	18.0	3,731,386	18.4	33,919	8.9	1,921,031	9.5	9	13.1	803	21.5
1971	62,498	16.2	3,555,970	17.2	33,871	8.8	1,927,542	9.3	14	22.4	668	18.8
1972	56,395	14.5	3,258,411	15.6	34,565	8.9	1,963,944	9.4	4	7.1	612	18.8
1973	53,783	13.8	3,136,965	14.8	33,899	8.7	1,973,003	9.3	4	7.4	477	15.2
1974	55,753	14.2	3,159,958	14.8	33,501	8.6	1,934,388	9.1	4	7.2	462	14.6
1975	56,463	14.4	3,144,198	14.6	32,686	8.3	1,892,879	8.8	3	5.3	403	12.8
1976	56,599	14.3	3,167,788	14.6	32,798	8.3	1,909,440	8.8	2	3.5	390	12.3
1977	60,284	15.2	3,326,632	15.1	32,281	8.1	1,899,597	8.6	4	6.6	373	11.2
1978	61,977	15.5	3,333,279	15.0	33,312	8.3	1,927,788	8.7	6	9.7	321	9.6
1979	65,325	16.1	3,494,398	15.6	32,082	7.9	1,913,841	8.5	3	4.6	336	9.6
1980	67,843	16.6	3,612,258	15.9	33,415	8.2	1,989,841	8.8	4	5.9	334	9.2
1981	68,652	16.7	3,629,238	15.8	32,815	8.0	1,977,981	8.6	2	2.9	309	8.5
1982	68,512	16.6	3,680,537	15.9	32,976	8.0	1,974,797	8.5	3	4.4	292	7.9
1983	65,559	15.8	3,638,933	15.5	33,902	8.2	2,019,201	8.6	2	3.1	290	8.0
1984	66,715	16.0	3,669,141	15.5	33,746	8.1	2,039,369	8.6	5	7.5	285	7.8
1985	67,412	16.1	3,760,561	15.8	34,793	8.3	2,086,440	8.7	3	4.5	295	7.8
1986	65,766	15.7	3,756,547	15.6	35,070	8.3	2,099,000+	8.7+	1	1.5	250+	6.7+

* Live Births per 1,000 Population
** Deaths per 1,000 Population
*** Maternal Deaths per 100,000 Live Births
+ Provisional Data

Table 4
NUMBERS AND RATES OF INFANT DEATHS, NEONATAL DEATHS, AND FETAL DEATHS
MINNESOTA AND UNITED STATES,
1940, 1945, 1950, 1955, 1960, 1965-1986

	Infant Deaths				Neonatal Deaths				Fetal Deaths			
	Minnesota		United States		Minnesota		United States		Minnesota		United States	
Year	Number	Rate*	Number	Rate*	Number	Rate**	Number	Rate**	Number	Rate***	Number	Rate***
1940	1,772	33.3	110,984	47.0	1,246^{+}	23.4	67,866	28.8	1,144^{+}	21.5	73,802	31.3
1945	1,698	31.1	104,684	38.3	1,226^{+}	22.6	66,593	24.3	1,141	20.9	65,513	23.9
1950	1,876	25.0	103,825	29.2	1,430	19.0	72,855	20.5	1,208	16.1	68,262	19.2
1955	1,779	21.8	106,903	26.4	1,386	17.0	77,351	19.1	1,173	14.4	69,153	17.1
1960	1,881	21.5	110,873	26.0	1,397	16.0	79,733	18.7	1,058	12.1	68,480	16.1
1965	1,432	20.2	92,866	24.7	1,075	15.2	66,419	17.7	921	13.0	60,859	16.2
1966	1,299	19.5	85,516	23.7	987	14.8	61,941	17.2	819	12.3	56,637	15.7
1967	1,288	20.0	79,028	22.4	980	15.2	58,127	16.5	712	11.0	54,934	15.6
1968	1,192	18.4	76,263	21.8	894	13.8	56,456	16.1	740	11.4	55,293	15.8
1969	1,110	16.8	75,073	20.9	876	13.3	56,085	15.6	681	10.3	50,749	14.1
1970	1,203	17.6	74,667	20.0	944	13.8	56,279	15.1	705	10.3	52,961	14.2
1971	1,081	17.3	67,981	19.1	829	13.3	50,496	14.2	594	9.5	47,818	13.4
1972	946	16.8	60,182	18.5	704	12.5	44,432	13.6	533	9.5	41,380	12.7
1973	831	15.5	55,581	17.7	630	11.7	40,664	13.0	481	8.9	38,309	12.2
1974	809	14.5	52,776	16.7	598	10.7	38,738	12.3	523	9.4	36,281	11.5
1975	771	13.7	50,525	16.1	582	10.3	36,416	11.6	479	8.5	33,796	10.7
1976	789	13.9	48,265	15.2	565	10.9	34,587	10.9	487	8.6	33,111	10.5
1977	664	11.0	46,975	14.1	478	7.9	32,860	9.9	471	7.8	33,053	9.9
1978	739	11.9	45,945	13.8	513	8.3	31,618	9.5	468	7.6	32,301	9.7
1979	700	10.7	45,665	13.1	469	7.2	30,980	8.9	445	6.8	32,969	9.4
1980	679	10.0	45,526	12.6	421	6.2	30,618	8.5	449	6.6	33,353	9.2
1981	701	10.2	43,305	11.9	448	6.5	29,121	8.0	461	6.7	32,596	9.0
1982	645	9.4	42,401	11.5	402	5.9	28,335	7.7	429	6.3	NA	NA
1983	645	9.8	40,627	11.2	410	6.3	26,507	7.3	457	7.0	NA	NA
1984	590	8.8	39,580	10.8	362	5.4	25,691	7.0	465	7.0	NA	NA
1985	591	8.8	40,030	10.6	364	5.4	26,179	7.0	439	6.5	NA	NA
1986	606	9.2	38,600$^{@}$	10.4$^{@}$	365	5.5	NA	6.7$^{@}$	400	6.1	NA	NA

*	Infant Deaths per 1,000 Live Births
**	Neonatal Deaths per 1,000 Live Births
***	Fetal Deaths per 1,000 Live Births
+	Place of Occurrence
@	Provisional Data

Table 5
MARRIAGES AND DIVORCES AND ANNULMENTS, NUMBERS AND RATES*
MINNESOTA AND UNITED STATES, 1940, 1945, 1950, 1955, 1960, 1965-1986

	Marriages				Divorces			
	Minnesota		United States		Minnesota		United States	
	#	Rate*	#	Rate*	#	Rate**	#	Rate**
1940	27,419	9.8	1,595,879	12.1	2,957	1.1	264,000	2.0
1945	26,195	10.0	1,612,992	12.2	5,326	2.0	485,000	3.5
1950	30,991	10.4	1,667,231	11.1	4,049	1.4	385,000	2.6
1955	24,854	7.8	1,531,000	9.3	3,757	1.2	377,000	2.3
1960	23,596	6.9	1,523,000	8.5	4,175	1.2	393,000	2.2
1965	26,472	7.4	1,800,000	9.3	4,848	1.3	479,000	2.5
1966	26,566	7.3	1,857,000	9.5	5,457	1.5	499,000	2.5
1967	28,163	7.7	1,927,000	9.7	6,148	1.7	523,000	2.6
1968	30,671	8.3	2,069,000	10.4	6,646	1.8	584,000	2.9
1969	31,971	8.5	2,145,000	10.6	7,496	2.0	639,000	3.2
1970	31,280	8.2	2,158,802	10.6	8,221	2.2	708,000	3.5
1971	31,196	8.1	2,190,481	10.6	9,494	2.5	773,000	3.7
1972	32,227	8.3	2,282,154	10.9	10,214	2.6	845,000	4.0
1973	32,996	8.5	2,284,108	10.8	11,113	2.9	915,000	4.3
1974	33,547	8.6	2,229,667	10.5	12,204	3.1	977,000	4.6
1975	32,237	8.2	2,152,662	10.0	13,147	3.3	1,036,000	4.8
1976	32,027	8.1	2,154,807	9.9	13,764	3.5	1,083,000	5.0
1977	33,040	8.3	2,178,367	9.9	13,852	3.5	1,091,000	5.0
1978	33,480	8.4	2,282,272	10.3	14,183	3.5	1,130,000	5.1
1979	37,020	9.1	2,331,337	10.4	14,542	3.6	1,181,000	5.3
1980	37,625	9.2	2,390,252	10.6	15,092	3.7	1,189,000	5.2
1981	37,638	9.2	2,422,145	10.6	16,329	4.0	1,213,000	5.3
1982	37,409	9.1	2,456,278	10.6	15,177	3.7	1,170,000	5.0
1983	36,259	8.7	2,445,604	10.5	14,789	3.6	1,158,000	4.9
1984	36,223	8.7	2,477,192***	10.5	14,758	3.5	1,169,000	5.0
1985	35,059	8.4	2,412,625	10.1	14,795	3.5	1,190,000	5.0
1986	34,199	8.1	2,400,000***	10.0***	14,426	3.4	1,159,000***	4.8***

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* Marriages per 1,000 Population

** Divorces and Annulments per 1,000 Population

*** Provisional Data

Table 6
BIRTHS, DEATHS, INFANT DEATHS, FETAL DEATHS, MARRIAGES, DIVORCES AND ANNULMENTS BY MONTH
MINNESOTA OCCURRENCES, 1986

	Births	Deaths	Infant Deaths	Fetal Deaths	Marriages	Divorces and Annulments
Total	65,790	35,245	630	404	34,199	14,426
January	5,285	3,273	52	35	1,014	1,178
February	5,014	2,932	57	22	1,502	986
March	5,605	3,090	59	30	1,400	1,178
April	5,643	2,764	50	30	2,591	1,376
May	5,893	2,993	54	35	3,562	1,173
June	5,606	2,733	60	31	4,652	1,231
July	5,805	2,841	45	48	3,008	1,129
August	5,763	2,653	49	37	4,975	1,229
September	5,767	2,807	42	34	4,108	1,251
October	5,409	2,997	51	26	3,282	1,275
November	4,854	3,060	60	37	2,184	1,025
December	5,146	3,102	51	39	1,921	1,395

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS
BY URBAN AREA OF RESIDENCE, MINNESOTA, 1986

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Afton	18	-	8	-	-
Albert Lea	236	2	202	2	1
Alexandria	110	2	174	4	3
Andover	173	-	23	3	2
Anoka	389	1	132	1	1
Apple Valley	486	2	72	3	1
Arden Hills	125	-	81	3	3
Aurora	28	-	29	-	-
Austin	269	1	290	-	-
Baxter	38	1	13	-	-
Bayport	22	1	17	-	-
Belle Plaine	61	-	42	1	1
Bemidji	201	2	124	4	1
Benson	40	-	59	-	-
Blaine	684	3	75	5	4
Bloomington	1,062	7	533	7	6
Blue Earth	47	-	62	-	-
Brainerd	268	1	175	3	-
Breckenridge	49	-	41	-	-
Brooklyn Center	436	-	202	6	3
Brooklyn Park	1,118	9	150	8	3
Buffalo	112	-	80	-	-
Burnsville	675	1	111	8	6
Caledonia	55	-	36	-	-
Cambridge	64	-	81	2	1
Cannon Falls	51	1	55	2	2
Champlin	294	-	29	-	-
Chanhassen	126	-	25	1	1
Chaska	221	1	48	1	1
Chisholm	62	1	71	-	-
Circle Pines	182	-	24	-	-
Cloquet	158	-	131	2	2
Columbia Heights	269	1	177	4	4
Coon Rapids	806	1	159	3	-
Corcoran	79	-	16	1	1
Cottage Grove	327	2	49	3	2
Crookston	150	1	109	3	2
Crystal	390	-	172	-	-
Dayton	54	-	15	-	-
Deephaven	45	-	17	-	-
Detroit Lakes	114	1	131	1	1
Dilworth	36	-	16	-	-
Duluth	1,258	14	1,147	13	8
Eagan	786	2	60	5	4
East Bethel	76	1	10	-	-
East Grand Forks	184	2	85	3	-
Eden Prairie	576	1	74	-	-
Edina	421	2	406	2	2
Elk River	150	-	70	2	1
Ely	44	-	96	2	2

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS
BY URBAN AREA OF RESIDENCE, MINNESOTA, 1986 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Eveleth	53	-	75	1	-
Excelsior	72	-	39	1	-
Fairmont	159	-	129	-	-
Falcon Heights	117	-	25	1	-
Faribault	279	2	201	1	1
Farmington	154	1	35	1	-
Fergus Falls	184	1	188	2	1
Forest Lake	164	2	83	2	1
Fridley	439	2	146	4	3
Gilbert	26	-	29	1	1
Glencoe	85	-	58	1	1
Glenwood	26	-	76	-	-
Golden Valley	243	1	177	2	2
Goodview	8	-	13	-	-
Grand Rapids	119	1	113	1	1
Granite Falls	46	1	44	-	-
Ham Lake	126	-	20	1	-
Hastings	293	2	123	4	2
Hermantown	14	-	18	-	-
Hibbing	242	-	202	1	-
Hopkins	245	-	190	1	-
Hoyt Lakes	17	-	17	-	-
Hugo	75	-	14	1	-
Hutchinson	204	2	100	2	1
Independence	13	-	8	-	-
International Falls	98	1	76	1	-
Inver Grove Heights	366	1	80	4	2
Jackson	61	-	70	2	2
Jordan	86	1	23	-	-
Kasson	84	-	22	-	-
La Crescent	70	1	37	-	-
Lake City	51	1	53	-	-
Lake Elmo	98	-	27	4	2
Lakeville	284	3	48	2	1
Le Sueur	57	1	34	-	-
Lino Lakes	119	1	20	3	1
Litchfield	90	-	94	1	1
Little Canada	136	2	38	-	-
Little Falls	117	1	122	3	1
Long Prairie	47	-	52	-	-
Luverne	46	-	61	-	-
Mahtomedi	79	1	22	1	-
Mankato	410	4	232	6	2
Maple Grove	649	4	60	3	2
Maplewood	459	4	216	2	1
Marshall	166	1	79	-	-
Medina	36	-	10	1	1
Mendota Heights	81	1	36	-	-
Minneapolis	6,564	35	3,916	81	45
Minnetonka	580	4	200	4	2

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS
BY URBAN AREA OF RESIDENCE, MINNESOTA, 1986 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Minnetrista	19	-	12	-	-
Montevideo	72	-	98	1	-
Monticello	136	-	36	1	-
Moorhead	413	6	241	7	5
Mora	34	-	53	1	1
Morris	58	-	58	2	1
Mound	182	-	50	3	1
Mounds View	212	2	43	2	1
Mountain Iron	28	-	26	-	-
New Brighton	310	2	155	3	2
New Hope	296	2	279	2	-
New Prague	57	-	47	-	-
New Ulm	197	4	116	3	2
Newport	69	1	20	1	1
North Mankato	181	-	54	2	1
North Oaks	35	-	9	1	-
North St. Paul	200	-	81	1	-
Northfield	155	-	100	1	1
Oak Park Heights	8	-	12	-	-
Oakdale	237	2	43	3	3
Olivia	43	-	29	-	-
Orono	38	-	20	-	-
Ortonville	23	-	36	-	-
Osseo	57	-	47	2	-
Owatonna	281	2	167	2	1
Park Rapids	51	-	98	1	-
Pipestone	62	1	76	-	-
Plymouth	690	6	135	8	7
Princeton	70	-	47	-	-
Prior Lake	218	2	45	-	-
Proctor	33	1	37	-	-
Ramsey	149	-	11	-	-
Red Wing	222	1	166	2	1
Redwood Falls	67	-	62	1	1
Richfield	498	4	273	3	1
Robbinsdale	235	-	172	5	3
Rochester	1,282	4	450	8	7
Rosemount	135	-	30	-	-
Roseville	381	3	279	2	1
Saint Anthony	74	-	64	1	1
Saint Cloud	737	4	322	8	7
Saint James	67	-	62	-	-
Saint Joseph	40	-	11	-	-
Saint Louis Park	646	4	424	4	3
Saint Paul	5,064	36	2,732	61	41
Saint Paul Park	87	-	20	1	1
Saint Peter	118	-	98	-	-
Sartell	87	1	40	3	2
Sauk Centre	61	1	34	-	-
Sauk Rapids	152	1	73	2	1

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1986 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Savage	194	1	16	1	1
Shakopee	219	-	59	2	1
Shoreview	405	2	76	6	6
Shorewood	50	-	8	-	-
Silver Bay	33	-	15	-	-
Sleepy Eye	55	-	45	-	-
South International Falls	19	-	12	-	-
South St. Paul	317	2	178	3	3
Spring Lake Park	112	-	18	1	1
Spring Valley	40	-	39	3	3
Staples	52	-	51	1	1
Stewartville	76	-	38	1	1
Stillwater	235	2	152	-	-
Thief River Falls	131	-	135	1	-
Two Harbors	56	-	75	1	1
Vadnais Heights	192	1	30	2	1
Virginia	120	-	161	1	-
Waconia	42	1	46	-	-
Wadena	74	-	57	1	1
Waite Park	91	1	34	-	-
Waseca	137	2	78	1	-
Wayzata	102	-	40	1	1
Wells	38	-	36	1	1
West St. Paul	244	2	222	1	1
White Bear Lake	492	3	171	4	1
Willmar	253	4	175	3	2
Windom	61	-	62	1	1
Winona	342	3	267	2	2
Woodbury	240	3	83	3	3
Worthington	140	2	106	-	-

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* Municipalities with population of 2,500 or more as of the 1980 Census.

Live Births

Every day in 1986, residents of Minnesota experienced an average of:

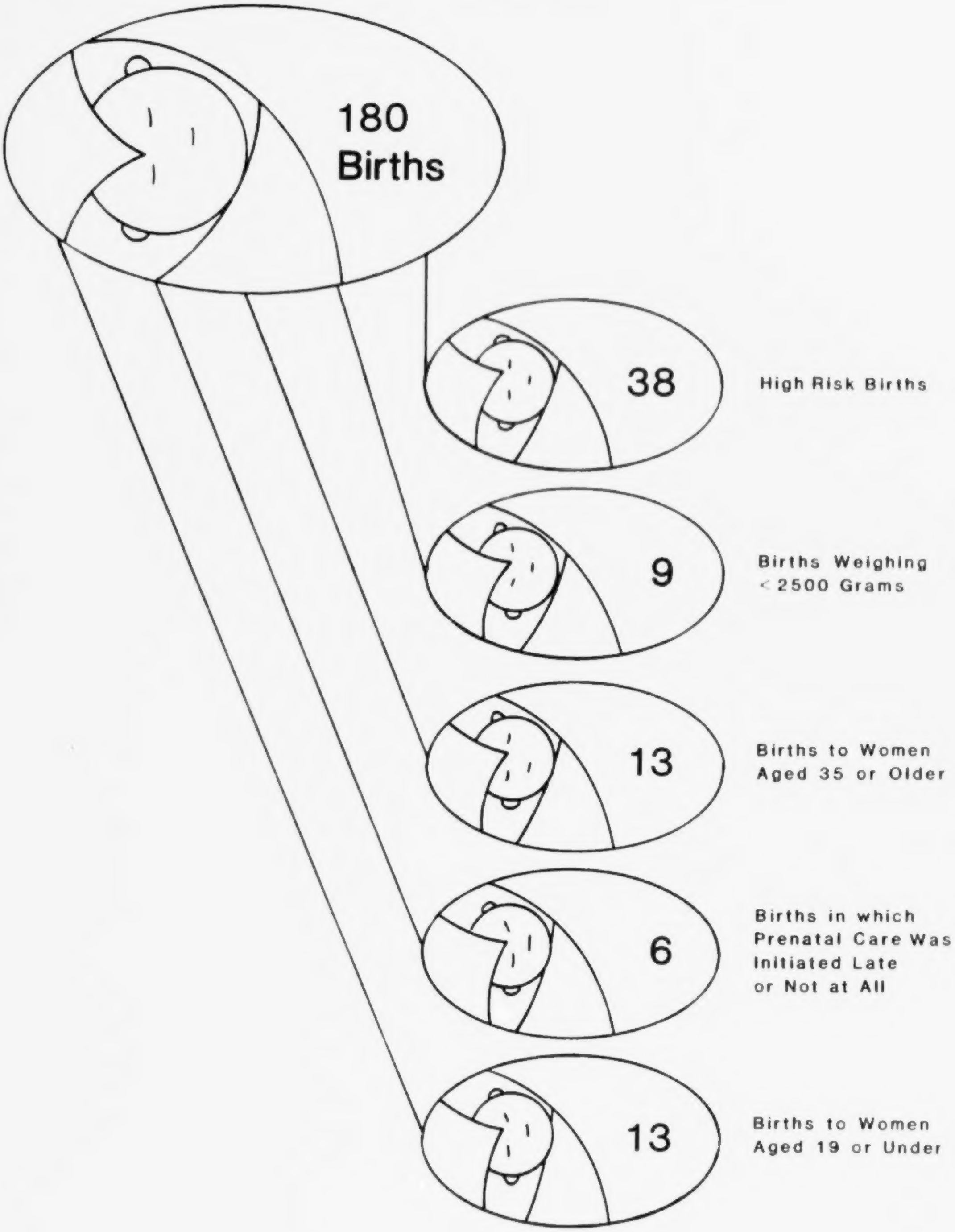

Table 8

LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1986

	Births Occurring in County				Resident Births		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
State Total	65,790	45,598	18,307	1,885	18,307	1,861	65,766
Aitkin	88	79	9	-	75	1	155
Anoka	3,980	2,423	1,555	2	1,439	8	3,870
Becker	410	324	85	1	64	58	446
Beltrami	867	594	272	1	17	3	614
Benton	1	1	-	-	529	-	530
Big Stone	158	72	28	58	11	4	87
Blue Earth	1,139	656	477	6	60	1	717
Brown	532	372	159	1	39	-	411
Carlton	272	175	97	-	181	1	357
Carver	734	292	441	1	421	-	713
Cass	1	1	-	-	328	4	333
Chippewa	168	106	58	4	81	-	187
Chisago	240	166	70	4	237	44	447
Clay	244	171	34	39	4	484	659
Clearwater	37	35	1	1	102	1	138
Cook	31	30	1	-	15	-	45
Cottonwood	135	103	32	-	50	8	161
Crow Wing	777	573	204	-	36	1	610
Dakota	2,279	1,772	459	48	2,224	6	4,002
Dodge	2	2	-	-	258	1	261
Douglas	513	366	144	3	37	1	404
Faribault	155	116	16	23	112	2	230
Fillmore	13	13	-	-	200	87	300
Freeborn	519	369	107	43	54	5	428
Goodhue	575	383	57	135	189	2	574
Grant	35	28	5	2	50	-	78
Hennepin	19,643	14,481	5,063	99	1,531	30	16,042
Minneapolis	10,860	4,706	6,082	72	1,838	20	6,564
Houston	44	40	1	3	9	227	276
Hubbard	228	125	102	1	61	8	194
Isanti	450	217	232	1	146	-	363
Itasca	525	468	55	2	93	-	561
Jackson	66	59	6	1	98	17	174
Kanabec	228	116	111	1	71	1	188
Kandiyohi	801	523	278	-	35	1	559
Kittson	85	58	24	3	19	26	103
Koochiching	141	137	3	1	28	7	172
Lac Qui Parle	81	74	3	4	52	3	129
Lake	96	78	15	3	58	1	137
Lake of the Woods	68	52	13	3	10	1	63
Le Sueur	66	51	15	-	284	1	336
Lincoln	81	40	27	14	26	8	74
Lyon	382	303	79	-	41	7	351
McLeod	576	402	174	-	132	-	534
Mahnomen	24	19	5	-	47	8	74
Marshall	32	29	3	-	62	47	138
Martin	355	285	27	43	19	4	308
Meeker	136	108	28	-	206	-	314
Mille Lacs	387	226	160	1	69	-	295
Morrison	431	362	66	3	118	-	480
Mower	465	376	75	14	98	5	479

Table 8

LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1986 (CONT.)

	Births Occurring in County				Resident Births		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Murray	54	49	4	1	83	6	138
Nicollet	121	77	43	1	334	-	411
Nobles	382	204	158	20	36	33	273
Norman	13	12	1	-	32	56	100
Olmsted	2,680	1,717	906	57	9	1	1,727
Otter Tail	636	542	88	6	143	33	718
Pennington	313	175	138	-	6	19	200
Pine	29	29	-	-	254	9	292
Pipestone	138	113	20	5	23	37	173
Polk	264	209	53	2	25	284	518
Pope	106	85	21	-	64	2	151
Ramsey	9,601	6,159	3,204	238	2,036	14	8,209
St. Paul	8,425	3,890	4,313	222	1,167	7	5,064
Red Lake	1	1	-	-	56	6	63
Redwood	183	148	35	-	111	-	259
Renville	125	111	8	6	138	-	249
Rice	622	513	109	-	161	1	675
Rock	152	95	47	10	5	33	133
Roseau	193	172	15	6	50	13	235
St. Louis	3,192	2,437	363	392	49	7	2,493
Duluth	2,266	1,243	632	391	11	4	1,258
Scott	951	487	464	-	477	-	964
Sherburne	7	7	-	-	557	-	564
Sibley	69	62	7	-	132	-	194
Stearns	2,597	1,665	931	1	152	5	1,822
Steele	347	297	49	1	145	1	443
Stevens	145	121	24	-	17	3	141
Swift	85	77	8	-	59	-	136
Todd	195	142	52	1	237	2	381
Traverse	73	40	13	20	31	8	79
Wabasha	199	130	22	47	167	2	299
Wadena	370	159	210	1	64	5	228
Waseca	186	153	33	-	101	-	254
Washington	655	358	146	151	1,560	18	1,936
Watonwan	154	129	25	-	47	1	177
Wilkin	365	75	15	275	11	10	96
Winona	541	431	43	67	104	123	658
Wright	583	472	110	1	664	3	1,139
Yellow Medicine	167	94	66	7	41	2	137
Unknown	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1986

	State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth
Live Births	65,766	155	3,870	446	614	530	87	717
Fertility Rate	65.9	65.0	66.0	72.2	79.2	79.2	66.8	51.4
Birth Rate	15.6	11.5	17.7	14.3	18.2	19.3	11.2	13.6
Sex: Male	33,630	83	1,964	235	320	273	39	355
Female	32,136	72	1,906	211	294	257	48	362
Out-of-Wedlock, Percent	16.3	23.2	13.0	21.1	34.4	12.5	6.9	13.5
Race: White	59,310	148	3,184	383	422	521	84	701
Black	2,110	1	11	-	1	4	-	5
Indian	1,472	6	19	62	190	1	2	1
Live Birth Order								
Median	2.3	2.4	2.2	2.6	2.4	2.4	2.6	2.4
% 5th or over	3.6	5.8	1.7	8.5	5.2	4.3	2.3	4.6
Prematurity, Percent								
Less than 37 weeks	5.7	6.5	2.6	7.0	6.8	4.3	5.7	5.9
Less than 2,500 grams	5.0	2.6	4.1	5.2	3.9	3.4	3.4	4.7
Plurality:								
Single	64,398	153	3,811	438	606	520	87	709
Twin	1,318	2	59	8	8	10	-	8
Triplet	45	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.5	6.5	2.2	3.6	6.4	2.1	1.1	1.3
18-19	4.8	6.5	5.1	8.7	7.5	5.5	5.7	4.2
40 and over	.8	1.9	.5	.7	.2	.6	2.3	1.0
Mother's Education, Percent								
Less than 12 years	8.9	14.2	3.9	17.5	18.1	7.2	9.2	6.6
Over 3 years college	18.7	11.6	9.6	8.5	16.8	14.5	16.1	21.9
Prenatal Care Began, Percent								
3rd Trimester or none	3.3	4.5	1.3	3.4	6.2	1.3	3.4	2.1
Prenatal Care Visits								
Median	11.4	10.2	11.6	11.1	10.5	12.1	10.6	12.7
Congenital Anomalies, Percent	1.3	.6	.6	2.5	1.5	1.3	1.1	1.5
High Risk, Percent	20.9	27.1	14.7	23.8	25.7	19.6	13.8	17.4
Other Significant Conditions of Child, Percent	4.7	6.5	2.2	7.2	5.0	2.6	3.4	3.3
Infant Deaths								
Total	606	1	28	7	6	6	-	9
White	536	1	28	5	3	6	-	9
Black	35	-	-	-	-	-	-	-
Indian	22	-	-	2	3	-	-	-
Neonatal Deaths								
Total	365	-	16	4	1	4	-	5
White	334	-	16	3	1	4	-	5
Black	16	-	-	-	-	-	-	-
Indian	6	-	-	1	-	-	-	-
First Day Deaths								
Total	187	-	9	2	-	-	-	2
White	173	-	9	2	-	-	-	2
Black	8	-	-	-	-	-	-	-
Indian	1	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	97	-	1	1	1	3	-	2
White	89	-	1	1	1	3	-	2
Black	5	-	-	-	-	-	-	-
Indian	2	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	81	-	6	1	-	1	-	1
White	72	-	6	-	-	1	-	1
Black	3	-	-	-	-	-	-	-
Indian	3	-	-	1	-	-	-	-
Fetal Deaths								
Total	400	1	11	5	6	5	-	6
White	341	1	11	5	3	5	-	6
Black	15	-	-	-	-	-	-	-
Indian	7	-	-	-	3	-	-	-
Perinatal Rate	11.6	6.5	7.0	20.2	11.4	17.0	-	15.3
Maternal Deaths	1	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA 1986 (CONT.)

	Brown	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clear-water
Live Births	411	357	713	333	187	447	659	138
Fertility Rate	66.3	61.3	70.2	93.3	70.1	73.5	51.9	86.4
Birth Rate	14.7	12.5	17.1	15.6	12.8	15.6	13.4	15.3
Sex: Male	202	186	370	173	103	227	347	71
Female	209	171	343	160	84	220	312	67
Out-of-Wedlock, Percent	10.0	24.4	9.7	24.6	10.7	16.6	14.6	22.5
Race: White	406	309	707	254	184	441	638	106
Black	-	1	-	-	1	2	2	-
Indian	1	43	-	77	2	3	13	32
Live Birth Order								
Median	2.4	2.5	2.3	2.6	2.6	2.4	2.4	2.6
% 5th or over	3.2	5.0	2.8	8.1	3.2	2.9	3.5	6.5
Prematurity, Percent								
Less than 37 weeks	2.9	6.4	7.3	5.7	2.7	5.4	9.0	7.2
Less than 2,500 grams	3.9	4.8	4.9	3.6	2.1	2.9	6.4	2.2
Plurality:								
Single	405	347	697	327	183	437	640	134
Twin	6	10	10	6	4	10	19	4
Triplet	-	-	6	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.9	2.5	1.8	2.7	3.2	3.6	1.1	4.3
18-19	3.6	8.1	3.4	10.2	5.3	8.9	4.6	8.0
40 and over	1.5	.3	.6	.6	.5	1.1	.5	-
Mother's Education, Percent								
Less than 12 years	2.2	12.3	5.2	17.1	6.4	11.9	5.6	20.3
Over 3 years college	7.5	11.5	18.2	10.5	12.8	10.3	17.1	10.1
Prenatal Care Began, Percent								
3rd Trimester or none	.5	4.2	2.7	8.1	1.1	1.6	3.5	5.1
Prenatal Care Visits								
Median	10.7	10.7	12.2	10.1	11.0	10.6	11.7	10.6
Congenital Anomalies, Percent	1.5	1.1	1.5	1.5	2.7	2.5	1.2	.7
High Risk, Percent	19.7	17.1	22.3	20.4	23.0	19.7	15.0	18.8
Other Significant Conditions of Child, Percent	4.6	5.0	4.5	4.5	5.9	6.5	2.4	2.9
Infant Deaths								
Total	3	6	6	4	1	6	9	1
White	3	6	6	4	1	6	9	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	2	3	4	2	-	1	7	1
White	2	3	4	2	-	1	7	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	1	2	2	1	-	-	4	1
White	1	2	2	1	-	-	4	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	-	1	-	-	-	1	2	-
White	-	1	-	-	-	1	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	1	-	2	1	-	-	1	-
White	1	-	2	1	-	-	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	4	-	3	-	-	4	9	2
White	4	-	3	-	-	4	8	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	14.6	8.4	9.8	6.0	-	11.2	24.3	21.7
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Cook	Cotton-wood	Crow Wing	Dakota	Dodge	Douglas	Faribault	Fill-more
Live Births	45	161	610	4,002	261	404	230	300
Fertility Rate	46.2	67.2	70.8	65.8	83.0	65.6	71.9	75.0
Birth Rate	10.3	11.8	14.0	17.5	17.2	13.5	12.5	14.0
Sex: Male	21	75	307	2,037	123	215	118	133
Female	24	86	303	1,965	138	189	112	167
Out-of-Wedlock, Percent	13.3	11.8	21.1	10.7	10.0	12.1	11.3	9.3
Race: White	40	160	598	3,846	260	400	230	299
Black	-	-	2	55	-	-	-	-
Indian	5	-	8	13	-	3	-	-
Live Birth Order								
Median	2.4	2.7	2.4	2.2	2.5	214	2.6	2.5
% 5th or over	2.2	4.3	4.3	1.8	3.4	3.5	2.2	7.0
Prematurity, Percent								
Less than 37 weeks	4.4	6.2	4.8	4.6	4.6	4.0	4.8	5.3
Less than 2,500 grams	2.2	6.2	5.4	4.6	6.1	3.5	3.0	5.3
Plurality:								
Single	45	155	600	3,917	257	402	226	295
Twin	-	6	10	85	4	2	4	5
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	4.4	1.2	3.9	1.5	1.9	2.7	1.7	2.3
18-19	4.4	7.5	8.5	3.0	4.6	7.9	6.1	2.7
40 and over	-	-	.8	.3	.4	.7	1.3	.7
Mother's Education, Percent								
Less than 12 years	13.3	9.3	14.9	5.3	10.3	7.9	7.8	9.7
Over 3 years college	20.0	16.8	13.4	23.8	12.6	12.1	13.0	14.3
Prenatal Care Began, Percent								
3rd Trimester or none	2.2	2.5	3.4	3.1	2.3	3.2	1.3	3.7
Prenatal Care Visits								
Median	11.3	12.1	10.6	10.6	11.4	10.7	10.4	10.6
Congenital Anomalies, Percent	4.4	1.2	1.8	1.1	.8	1.7	1.7	2.0
High Risk, Percent	31.1	19.3	24.3	16.9	20.3	20.0	19.1	20.0
Other Significant Conditions of Child, Percent	8.9	3.1	8.9	4.2	5.7	5.2	4.3	6.3
Infant Deaths								
Total	-	4	4	31	3	5	1	7
White	-	4	4	31	3	5	1	7
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	-	4	1	20	2	4	1	3
White	-	4	1	20	2	4	1	3
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	-	3	1	6	1	1	-	1
White	-	3	1	6	1	1	-	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	-	-	-	8	1	2	1	1
White	-	-	-	8	1	2	1	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	1	-	6	-	1	-	1
White	-	1	-	6	-	1	-	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	-	-	2	17	-	2	2	-
White	-	-	2	16	-	2	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	-	24.8	4.9	9.2	7.7	14.9	13.0	10.0
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Freeborn	Goodhue	Grant	Hennepin	Minn-eapolis	Houston	Hubbard
Live Births	428	574	78	16,042	6,564	276	194
Fertility Rate	62.4	70.3	62.0	63.2	69.5	74.0	60.7
Birth Rate	12.4	14.3	11.1	16.6	18.2	14.5	12.5
Sex: Male	231	300	26	8,195	3,415	131	96
Female	197	274	52	7,847	3,149	145	98
Out-of-Wedlock, Percent	15.7	11.0	11.5	20.6	36.0	10.1	14.9
Race: White	426	562	77	13,226	4,426	274	183
Black	-	-	-	1,429	1,236	1	-
Indian	2	8	1	525	475	-	10
Live Birth Order							
Median	2.4	2.4	2.5	2.2	2.2	2.5	2.5
% 5th or over	1.4	2.3	5.1	2.6	4.1	5.4	8.2
Prematurity, Percent							
Less than 37 weeks	7.5	5.4	1.3	6.1	7.3	4.3	1.5
Less than 2,500 grams	4.7	3.7	1.3	5.9	7.9	2.5	2.6
Plurality:							
Single	415	560	78	15,693	6,405	272	192
Twin	10	14	-	339	159	4	2
Triplet	3	-	-	6	-	-	-
Mother's Age, Percent							
Under 18	3.3	1.0	-	2.6	4.8	1.4	4.6
18-19	6.1	4.4	-	4.2	6.6	3.6	8.2
40 and over	.5	.5	1.3	.8	.9	1.1	.5
Mother's Education, Percent							
Less than 12 years	12.1	8.2	2.6	10.4	17.7	7.6	11.3
Over 3 years college	11.0	14.6	17.9	23.8	20.4	20.3	12.9
Prenatal Care Began, Percent							
3rd Trimester or none	3.5	2.6	1.3	4.0	6.9	2.2	4.1
Prenatal Care Visits							
Median	9.5	12.3	11.9	12.1	11.4	11.5	10.4
Congenital Anomalies, Percent	1.4	1.7	-	1.1	1.2	3.3	3.1
High Risk, Percent	23.6	16.7	12.8	22.9	28.6	14.1	20.1
Other Significant Conditions of Child, Percent	6.8	4.9	5.1	4.3	5.4	4.3	5.7
Infant Deaths							
Total	2	10	1	148	81	1	1
White	2	9	1	107	48	1	1
Black	-	-	-	26	20	-	-
Indian	-	1	-	11	11	-	-
Neonatal Deaths							
Total	1	8	-	85	45	1	-
White	1	8	-	66	31	1	-
Black	-	-	-	13	10	-	-
Indian	-	-	-	3	3	-	-
First Day Deaths							
Total	1	5	-	47	27	1	-
White	1	5	-	38	20	1	-
Black	-	-	-	8	6	-	-
Indian	-	-	-	1	1	-	-
1-6 Day Deaths							
Total	-	1	-	19	10	-	-
White	-	1	-	14	5	-	-
Black	-	-	-	3	3	-	-
Indian	-	-	-	2	2	-	-
7-27 Day Deaths							
Total	-	2	-	19	8	-	-
White	-	2	-	14	6	-	-
Black	-	-	-	2	1	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	3	4	1	81	35	2	1
White	3	2	-	55	21	2	1
Black	-	-	-	9	8	-	-
Indian	-	-	-	2	2	-	-
Perinatal Rate	9.3	20.9	12.8	10.3	12.2	10.9	5.2
Maternal Deaths	-	-	-	1	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Isanti	Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Koochiching
Live Births	363	561	174	188	559	103	172
Fertility Rate	56.6	61.2	69.0	73.7	60.7	81.4	51.7
Birth Rate	13.8	12.8	13.1	14.9	14.0	15.6	10.6
Sex: Male	190	287	92	92	310	60	91
Female	173	274	82	96	249	43	81
Out-of-Wedlock, Percent	17.9	22.5	10.3	17.6	11.6	7.8	17.4
Race: White	347	494	171	186	550	99	151
Black	1	-	-	-	1	-	1
Indian	-	65	-	1	5	-	13
Live Birth Order							
Median	2.3	2.4	2.2	2.6	2.4	2.4	2.5
% 5th or over	3.6	5.3	1.7	4.3	3.0	-	5.2
Prematurity, Percent							
Less than 37 weeks	4.4	9.1	11.5	4.3	5.5	8.7	1.7
Less than 2,500 grams	2.5	7.0	6.9	3.2	3.8	4.9	2.9
Plurality:							
Single	363	549	166	188	546	99	172
Twin	-	12	8	-	13	4	-
Triplet	-	-	-	-	-	-	-
Mother's Age, Percent							
Under 18	1.7	4.1	3.4	3.7	1.4	1.9	2.3
18-19	8.8	8.9	4.0	5.3	5.5	6.8	5.2
40 and over	.8	.5	-	1.1	.5	-	.6
Mother's Education, Percent							
Less than 12 years	12.1	11.2	7.5	13.3	8.2	6.8	9.3
Over 3 years college	11.8	10.0	14.9	9.0	14.0	19.4	11.0
Prenatal Care Began, Percent							
3rd Trimester or none	2.5	1.4	2.3	4.3	2.3	5.8	.6
Prenatal Care Visits							
Median	11.0	10.7	12.0	10.8	11.8	10.2	10.5
Congenital Anomalies, Percent	1.7	1.6	2.3	1.6	1.6	2.9	1.2
High Risk, Percent	22.0	24.2	23.0	24.5	14.3	19.4	18.0
Other Significant Conditions of Child, Percent	6.6	8.9	8.0	6.9	6.4	2.9	3.5
Infant Deaths							
Total	5	5	3	1	9	1	2
White	5	5	3	1	9	1	2
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Neonatal Deaths							
Total	4	4	2	1	7	1	1
White	4	4	2	1	7	1	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	2	3	1	1	2	1	-
White	2	3	1	1	2	1	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	1	1	-	-	1	-	1
White	1	1	-	-	1	-	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	1	-	1	-	4	-	-
White	1	-	1	-	4	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	5	4	-	-	10	2	2
White	3	4	-	-	9	2	2
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Perinatal Rate	24.8	14.3	11.5	5.3	30.4	29.1	17.4
Maternal Deaths	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Lac Qui Parle	Lake	Lake of the Woods	LeSueur	Lin-coln	Lyon	Mc-Leod	Mahnomen
Live Births	129	137	63	336	74	351	534	74
Fertility Rate	74.4	63.6	84.8	75.3	59.0	61.8	81.6	77.4
Birth Rate	12.7	12.0	16.2	14.2	9.6	13.8	17.6	13.3
Sex: Male	62	75	26	149	42	175	281	38
Female	67	62	37	187	32	176	253	36
Out-of-Wedlock, Percent	9.3	10.9	7.9	10.7	10.8	10.3	12.2	31.1
Race: White	129	134	61	335	74	347	530	49
Black	-	-	-	-	-	1	-	-
Indian	-	1	1	1	-	3	1	25
Live Birth Order								
Median	2.5	2.5	2.3	2.6	2.7	2.5	2.5	2.6
% 5th or over	2.3	4.4	6.3	5.1	4.1	4.6	2.2	5.4
Prematurity, Percent								
Less than 37 weeks	6.2	6.6	7.9	3.6	12.2	4.8	5.4	6.8
Less than 2,500 grams	5.4	3.6	3.2	3.3	5.4	4.8	4.3	4.1
Plurality:								
Single	127	135	61	332	68	349	519	74
Twin	2	2	2	4	6	2	15	-
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.3	2.9	4.8	2.4	-	.9	.7	5.4
18-19	1.6	6.6	1.6	5.4	5.4	4.8	6.0	10.8
40 and over	-	1.5	-	.9	1.4	.3	1.1	6.8
Mother's Education, Percent								
Less than 12 years	3.9	6.6	9.5	8.6	10.8	6.6	5.6	17.6
Over 3 years college	16.3	12.4	11.1	12.2	13.5	17.1	14.0	13.5
Prenatal Care Began, Percent								
3rd Trimester or none	1.6	2.9	3.2	3.3	2.7	4.3	1.5	1.4
Prenatal Care Visits								
Median	9.9	11.3	9.8	12.2	9.9	11.9	12.2	11.0
Congenital Anomalies, Percent	.8	1.5	1.6	2.4	2.7	2.0	3.4	4.1
High Risk, Percent	26.4	18.2	20.6	22.0	21.6	28.2	20.8	25.7
Other Significant Conditions of Child, Percent	7.8	4.4	6.3	4.5	6.8	7.4	5.8	2.7
Infant Deaths								
Total	2	2	-	3	1	1	4	-
White	2	2	-	3	1	1	4	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	1	2	-	1	1	-	2	-
White	1	2	-	1	1	-	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	-	-	-	-	-	-	2	-
White	-	-	-	-	-	-	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	1	1	-	1	1	-	-	-
White	1	1	-	1	1	-	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	1	-	-	-	-	-	-
White	-	1	-	-	-	-	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	-	-	-	6	-	2	6	-
White	-	-	-	6	-	2	6	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	7.8	14.6	-	20.8	13.5	5.7	15.0	-
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Marshall	Martin	Meeker	Mille Lacs	Morrison	Mower	Murray
Live Births	138	308	314	295	480	479	138
Fertility Rate	59.3	68.1	79.2	84.5	81.1	66.9	71.8
Birth Rate	10.9	12.8	14.9	15.8	15.9	12.2	12.6
Sex: Male	67	169	166	159	251	237	77
Female	71	139	148	136	229	242	61
Out-of-Wedlock, Percent	5.8	8.4	13.7	17.6	16.0	13.2	9.4
Race: White	136	308	314	270	477	470	136
Black	-	-	-	1	-	1	1
Indian	2	-	-	20	1	1	1
Live Birth Order							
Median	2.7	2.5	2.4	2.6	2.6	2.5	2.5
% 5th or over	8.0	3.2	5.7	2.7	8.8	3.8	5.1
Prematurity, Percent							
Less than 37 weeks	5.8	4.2	5.7	9.2	5.4	5.4	8.0
Less than 2,500 grams	2.9	3.9	5.1	5.1	3.5	4.4	5.8
Plurality:							
Single	136	302	314	287	477	462	132
Twin	2	6	-	8	3	14	6
Triplet	-	-	-	-	-	3	-
Mother's Age, Percent							
Under 18	.7	2.9	1.9	3.4	4.2	1.0	2.9
18-19	3.6	3.2	6.4	5.8	5.8	4.2	6.5
40 and over	2.2	.3	1.6	.3	.8	1.0	-
Mother's Education, Percent							
Less than 12 years	5.8	8.4	9.9	13.2	9.2	6.1	7.2
Over 3 years college	18.8	12.3	11.8	6.1	10.6	11.9	17.4
Prenatal Care Began, Percent							
3rd Trimester or none	2.9	1.6	3.8	2.4	2.1	3.5	4.3
Prenatal Care Visits							
Median	10.4	11.5	11.1	10.8	12.1	9.7	11.2
Congenital Anomalies, Percent	-	1.3	1.9	2.0	1.7	1.7	-
High Risk, Percent	21.0	14.3	21.3	19.7	18.5	22.5	18.8
Other Significant Conditions of Child, Percent	3.6	5.8	7.6	5.8	4.0	7.9	3.6
Infant Deaths							
Total	1	-	2	3	6	3	1
White	1	-	2	3	6	3	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Neonatal Deaths							
Total	-	-	2	3	4	3	-
White	-	-	2	3	4	3	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	-	-	1	3	3	-	-
White	-	-	1	3	3	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	-	-	1	-	1	2	-
White	-	-	1	-	1	2	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	-	-	-	-	-	1	-
White	-	-	-	-	-	1	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	-	-	2	5	3	2	2
White	-	-	2	4	3	2	2
Black	-	-	-	-	-	-	-
Indian	-	-	-	1	-	-	-
Perinatal Rate	-	-	12.7	27.1	14.6	10.4	14.5
Maternal Deaths	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Nicollet	Nobles	Norman	Olmsted	Otter Tail	Penn-ington	Pine
Live Births	411	273	100	1,727	718	200	292
Fertility Rate	59.5	63.0	63.4	63.7	68.1	67.6	74.7
Birth Rate	14.5	12.8	11.0	17.5	13.1	14.6	14.0
Sex: Male	206	139	46	875	383	114	151
Female	205	134	54	852	335	86	141
Out-of-Wedlock, Percent	10.7	9.9	6.0	10.6	9.9	15.0	16.1
Race: White	409	269	100	1,621	707	197	284
Black	1	1	-	19	2	1	1
Indian	-	-	-	5	5	2	6
Live Birth Order							
Median	2.4	2.4	2.6	2.3	2.5	2.4	2.6
% 5th or over	1.5	3.3	7.0	3.6	3.9	4.5	5.5
Prematurity, Percent							
Less than 37 weeks	5.8	5.5	8.0	6.5	5.2	5.0	5.8
Less than 2,500 grams	3.9	5.9	4.0	5.2	3.9	4.5	4.5
Plurality:							
Single	407	263	96	1,683	708	200	284
Twin	4	10	4	41	10	-	8
Triplet	-	-	-	3	-	-	-
Mother's Age, Percent							
Under 18	1.7	1.8	2.0	1.0	2.4	1.5	2.7
18-19	4.1	5.5	3.0	3.4	5.0	4.5	6.2
40 and over	.7	.7	2.0	.5	1.5	.5	1.0
Mother's Education, Percent							
Less than 12 years	4.1	6.6	5.0	6.3	8.8	9.0	13.7
Over 3 years college	19.0	12.8	18.0	31.0	16.9	11.0	11.0
Prenatal Care Began, Percent							
3rd Trimester or none	1.5	1.8	5.0	2.1	2.9	5.0	6.2
Prenatal Care Visits							
Median	12.6	12.7	10.9	11.2	11.8	11.0	10.8
Congenital Anomalies, Percent	1.9	1.5	3.0	.8	2.2	2.0	.7
High Risk, Percent	17.0	16.5	19.0	25.9	22.4	18.5	21.2
Other Significant Conditions of Child, Percent	2.9	4.0	6.0	4.6	8.6	4.0	5.8
Infant Deaths							
Total	3	2	2	9	7	1	4
White	3	2	2	7	6	1	4
Black	-	-	-	1	-	-	-
Indian	-	-	-	-	1	-	-
Neonatal Deaths							
Total	1	1	1	8	2	-	2
White	1	1	1	6	2	-	2
Black	-	-	-	1	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	-	-	1	3	2	-	-
White	-	-	1	2	2	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	-	-	-	2	-	-	1
White	-	-	-	1	-	-	1
Black	-	-	-	1	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	1	1	-	3	-	-	1
White	1	1	-	3	-	-	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	4	3	1	8	4	-	5
White	4	2	1	8	4	-	4
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	1
Perinatal Rate	12.2	14.7	20.0	9.3	8.4	-	24.0
Maternal Deaths	-	1	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Pipe-stone	Polk	Pope	Ramsey	St. Paul	Red Lake	Redwood	Renville
Live Births	173	518	151	8,209	5,064	63	259	249
Fertility Rate	85.9	76.0	77.2	70.9	78.9	68.0	77.7	71.8
Birth Rate	15.5	15.2	12.9	17.6	19.0	12.4	14.0	13.0
Sex: Male	84	273	74	4,082	2,479	27	136	117
Female	89	245	77	4,127	2,585	36	123	132
Out-of-Wedlock, Percent	12.1	18.0	11.3	21.4	27.6	14.3	7.7	9.6
Race: White	168	500	151	6,776	3,860	63	250	245
Black	-	2	-	513	464	-	-	-
Indian	5	14	-	97	85	-	8	3
Live Birth Order								
Median	2.6	2.5	2.8	2.2	2.3	2.7	2.7	2.6
% 5th or over	7.5	4.4	7.9	4.9	6.9	3.2	7.7	1.6
Prematurity, Percent								
Less than 37 weeks	2.9	6.9	4.6	6.2	6.8	3.2	6.6	5.6
Less than 2,500 grams	4.0	2.7	6.0	6.0	6.5	4.8	4.2	4.0
Plurality:								
Single	167	508	147	7,998	4,947	63	251	245
Twin	6	10	4	195	110	-	8	4
Triplet	-	-	-	15	6	-	-	-
Mother's Age, Percent								
Under 18	4.0	3.3	2.0	3.3	4.5	3.2	.4	3.2
18-19	5.8	6.6	6.0	5.1	6.1	9.5	3.1	4.8
40 and over	1.2	.6	2.0	1.0	1.2	-	.8	-
Mother's Education, Percent								
Less than 12 years	10.4	13.3	7.3	10.4	14.2	11.1	5.0	6.0
Over 3 years college	9.2	13.3	14.6	24.3	21.8	7.9	12.0	12.4
Prenatal Care Began, Percent								
3rd Trimester or none	2.9	3.7	2.6	4.7	6.4	7.9	2.3	1.2
Prenatal Care Visits								
Median	11.9	11.7	10.3	11.0	10.8	10.0	11.3	11.7
Congenital Anomalies, Percent	-	.6	2.0	1.0	1.0	6.3	.8	.4
High Risk, Percent	15.6	15.1	19.9	23.4	26.0	31.7	17.0	14.5
Other Significant Conditions of Child, Percent	4.0	1.5	7.9	4.1	4.8	14.3	3.9	6.0
Infant Deaths								
Total	1	7	-	89	61	1	3	1
White	1	7	-	72	48	1	3	1
Black	-	-	-	7	7	-	-	-
Indian	-	-	-	2	-	-	-	-
Neonatal Deaths								
Total	-	2	-	58	41	1	2	-
White	-	2	-	50	35	1	2	-
Black	-	-	-	1	1	-	-	-
Indian	-	-	-	2	-	-	-	-
First Day Deaths								
Total	-	2	-	33	25	-	1	-
White	-	2	-	29	21	-	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	-	-	-	14	9	1	1	-
White	-	-	-	12	7	1	1	-
Black	-	-	-	1	1	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	-	-	11	7	-	-	-
White	-	-	-	9	7	-	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	2	-	-	-	-
Fetal Deaths								
Total	1	4	-	55	36	1	-	-
White	1	4	-	42	24	1	-	-
Black	-	-	-	6	6	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	5.8	11.6	-	13.8	15.2	31.7	7.7	-
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Rice	Rock	Roseau	St. Louis	Duluth	Scott	Sher-burne	Sibley
Live Births	675	133	235	2,493	1,258	964	564	194
Fertility Rate	56.6	63.6	86.7	56.0	65.0	74.3	65.0	68.2
Birth Rate	14.2	12.7	17.1	12.3	15.0	18.4	15.8	12.5
Sex: Male	374	74	115	1,276	636	514	289	90
Female	301	59	120	1,217	622	450	275	104
Out-of-Wedlock, Percent	14.7	6.0	8.1	21.2	25.2	9.9	12.8	7.7
Race: White	656	133	226	2,327	1,148	944	518	194
Black	3	-	1	15	13	3	1	-
Indian	4	-	3	116	71	6	2	-
Live Birth Order								
Median	2.3	2.6	2.3	2.3	2.2	2.3	2.5	2.6
% 5th or over	3.3	2.3	6.0	3.1	2.9	3.2	2.3	5.2
Prematurity, Percent								
Less than 37 weeks	5.0	5.3	3.0	7.9	8.5	5.6	4.8	2.6
Less than 2,500 grams	5.5	2.3	1.7	5.5	6.2	5.0	2.7	5.2
Plurality:								
Single	665	133	233	2,447	1,234	941	556	190
Twin	10	-	2	46	24	20	8	4
Triplet	-	-	-	-	-	3	-	-
Mother's Age, Percent								
Under 18	1.9	.8	2.1	3.5	4.0	1.8	3.7	1.0
18-19	5.3	5.3	7.7	5.9	5.6	3.1	4.8	2.1
40 and over	.6	-	.4	.8	.7	.6	.4	1.0
Mother's Education, Percent								
Less than 12 years	9.3	3.0	9.4	12.4	13.5	6.3	10.8	4.6
Over 3 years college	16.4	12.0	15.7	17.0	20.8	15.5	11.3	8.2
Prenatal Care Began, Percent								
3rd Trimester or none	3.6	.8	3.4	2.9	2.4	1.8	1.4	1.0
Prenatal Care Visits								
Median	12.1	12.2	10.7	11.0	10.9	11.7	11.3	11.7
Congenital Anomalies, Percent	2.2	1.5	3.0	1.9	2.1	1.2	1.2	2.6
High Risk, Percent	25.3	17.3	25.5	21.9	20.0	17.1	17.2	20.1
Other Significant Conditions of Child, Percent	7.1	2.3	8.1	6.6	7.1	3.6	4.1	6.7
Infant Deaths								
Total	3	-	4	21	13	4	6	2
White	3	-	4	20	13	4	6	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	1	-	-	-	-
Neonatal Deaths								
Total	3	-	1	12	8	3	2	2
White	3	-	1	12	8	3	2	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	2	-	1	8	6	-	2	1
White	2	-	1	8	6	-	2	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	1	-	-	2	1	3	-	-
White	1	-	-	2	1	3	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	-	-	2	1	-	-	1
White	-	-	-	2	1	-	-	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	2	1	2	21	14	5	1	2
White	2	1	2	20	13	3	1	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	7.4	7.5	12.8	13.2	17.5	8.3	5.3	20.6
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Stearns	Steele	Stevens	Swift	Todd	Traverse	Wabasha
Live Births	1,822	443	141	136	381	79	299
Fertility Rate	64.8	65.8	61.3	63.7	79.9	92.6	80.8
Birth Rate	15.7	14.4	12.7	10.9	15.0	15.5	15.5
Sex: Male	953	233	69	71	190	37	158
Female	869	210	72	65	191	42	141
Out-of-Wedlock, Percent	12.5	12.6	7.1	15.4	12.6	11.4	10.7
Race: White	1,800	435	138	136	378	75	298
Black	5	3	-	-	1	-	-
Indian	5	1	-	-	2	3	-
Live Birth Order							
Median	2.4	2.5	2.3	2.6	2.6	2.7	2.5
% 5th or over	5.6	3.2	3.5	2.2	7.1	7.6	4.0
Prematurity, Percent							
Less than 37 weeks	4.7	5.2	1.4	5.1	5.0	10.1	4.7
Less than 2,500 grams	4.1	3.6	4.3	5.1	4.5	5.1	4.7
Plurality:							
Single	1,777	437	141	134	375	79	293
Twin	42	6	-	2	6	-	6
Triplet	3	-	-	-	-	-	-
Mother's Age, Percent							
Under 18	1.5	1.4	1.4	4.4	3.4	1.3	2.0
18-19	4.6	3.2	2.1	4.4	8.9	6.3	3.3
40 and over	.8	.2	.7	.7	1.0	1.3	-
Mother's Education, Percent							
Less than 12 years	5.9	7.2	-	8.1	10.2	5.1	10.4
Over 3 years college	14.9	14.0	3.5	8.8	8.1	15.2	11.7
Prenatal Care Began, Percent							
3rd Trimester or none	1.9	3.2	1.4	3.7	3.9	1.3	4.7
Prenatal Care Visits							
Median	11.8	10.6	11.8	11.3	10.9	12.1	11.2
Congenital Anomalies, Percent	1.0	2.3	2.1	-	1.8	-	.7
High Risk, Percent	18.7	19.0	18.4	22.1	21.3	21.5	20.4
Other Significant Conditions of Child, Percent	4.4	7.2	4.3	3.7	5.5	7.6	5.4
Infant Deaths							
Total	16	2	3	-	4	1	1
White	15	2	3	-	4	-	1
Black	1	-	-	-	-	-	-
Indian	-	-	-	-	-	1	-
Neonatal Deaths							
Total	11	1	2	-	2	-	-
White	10	1	2	-	2	-	-
Black	1	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	5	-	1	-	1	-	-
White	5	-	1	-	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	3	1	1	-	1	-	-
White	3	1	1	-	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	3	-	-	-	-	-	-
White	2	-	-	-	-	-	-
Black	1	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	14	3	-	1	3	2	1
White	14	3	-	1	3	2	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Perinatal Rate	13.7	9.0	14.2	7.4	13.1	25.3	3.3
Maternal Deaths	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Wadena	Waseca	Wash-ington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine
Live Births	228	254	1,936	177	96	658	1,139	137
Fertility Rate	88.1	64.0	58.9	83.5	64.0	55.7	75.9	61.4
Birth Rate	16.6	13.6	15.1	15.3	11.8	14.1	17.7	10.8
Sex: Male	120	140	1,051	93	56	348	551	69
Female	108	114	885	84	40	310	588	68
Out-of-Wedlock, Percent	14.9	11.8	11.5	15.8	10.4	14.4	11.7	2.9
Race: White	224	254	1,887	176	94	648	1,056	136
Black	-	-	12	-	1	3	-	-
Indian	2	-	11	1	1	1	-	1
Live Birth Order								
Median	2.5	2.5	2.3	2.5	2.6	2.4	2.5	2.5
% 5th or over	8.8	4.7	2.5	2.3	9.4	5.2	5.7	2.9
Prematurity, Percent								
Less than 37 weeks	4.8	5.5	6.9	6.2	2.1	7.8	6.2	6.6
Less than 2,500 grams	5.3	2.8	5.8	6.8	2.1	5.5	5.0	2.2
Plurality:								
Single	222	250	1,873	175	96	648	1,119	135
Twin	6	4	60	2	-	10	20	2
Triplet	-	-	3	-	-	-	-	-
Mother's Age, Percent								
Under 18	3.1	2.0	1.8	2.8	1.0	2.6	1.9	.7
18-19	11.0	3.1	3.9	6.8	2.1	4.1	4.6	2.2
40 and over	.4	1.6	1.0	-	3.1	.6	1.2	-
Mother's Education, Percent								
Less than 12 years	8.3	9.1	5.8	10.7	4.2	10.0	6.8	8.0
Over 3 years college	11.8	16.1	21.2	12.4	16.7	20.7	10.6	13.9
Prenatal Care Began, Percent								
3rd Trimester or none	3.5	2.8	2.7	3.4	6.3	2.7	4.2	2.9
Prenatal Care Visits								
Median	10.8	11.1	11.0	11.6	11.3	10.9	11.2	11.7
Congenital Anomalies, Percent	1.8	.8	1.2	.6	1.0	2.3	1.2	.7
High Risk, Percent	25.0	17.3	19.9	15.8	21.9	21.4	19.5	23.4
Other Significant Conditions of Child, Percent	6.6	1.6	4.9	4.0	7.3	7.0	4.2	8.0
Infant Deaths								
Total	3	2	19	2	-	10	7	-
White	3	2	19	2	-	10	7	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	2	1	13	2	-	8	3	-
White	2	1	13	2	-	8	3	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	1	-	6	-	-	5	2	-
White	1	-	6	-	-	5	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	1	1	4	1	-	1	1	-
White	1	1	4	1	-	1	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	-	3	1	-	2	-	-
White	-	-	3	1	-	2	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	1	5	14	1	-	5	7	1
White	1	5	12	1	-	4	7	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	13.2	23.6	13.9	16.9	-	19.8	8.8	7.3
Maternal Deaths	-	-	-	-	-	-	-	-

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* As of the 1980 Census

Table 10

LIVE BIRTH WEIGHT BY LIVE BIRTH ORDER AND SEX
MINNESOTA RESIDENTS, 1986

Live Birth Order	Total Births	Weight in Grams 999 or Less	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 to 3,499	3,500 to 3,999	4,000 to 4,499	4,500 and Over	Weight Not Stated
First	24,752	123	141	251	913	3,389	9,138	8,027	2,337	410	23
Second	21,643	80	88	174	622	2,397	7,209	7,680	2,802	571	20
Third	10,847	25	32	95	317	1,129	3,489	3,878	1,511	361	10
Fourth	3,789	16	27	41	117	446	1,208	1,280	516	134	4
Fifth	1,313	8	9	27	46	147	408	411	201	54	2
Sixth	542	1	4	6	18	57	161	191	71	30	3
Seventh	245	1	1	4	5	27	68	80	48	11	-
Eight or Over	262	2	-	5	6	20	85	87	38	18	1
Not Stated	2,373	14	18	17	61	213	555	511	173	43	768
TOTAL	65,766	270	320	620	2,105	7,825	22,321	22,145	7,697	1,632	831
Male	33,630	140	169	323	964	3,390	10,330	11,878	4,845	1,159	432
Female	32,136	130	151	297	1,141	4,435	11,991	10,267	2,852	473	399

Table 11
LIVE BIRTHS BY AGE OF MOTHER AND LIVE BIRTH ORDER
MINNESOTA RESIDENTS, 1986

		Age of Mother								
Live Birth Order	Total Births	Under 15 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45 & Over Years	Age Not Stated
First	24,752	52	3,765	8,652	8,325	3,268	635	50	3	2
Second	21,643	1	704	5,771	8,850	5,068	1,176	70	1	2
Third	10,847	-	103	1,893	4,443	3,389	948	69	1	1
Fourth	3,789	-	16	452	1,413	1,279	547	81	-	1
Fifth	1,313	-	-	81	376	498	288	64	6	-
Sixth	542	-	-	22	126	200	154	37	3	-
Seventh	245	-	-	10	45	78	92	18	2	-
Eight or Over	262	-	-	2	17	55	101	69	18	-
Not Stated	2,373	1	163	602	896	546	145	16	1	3
TOTAL	65,766	54	4,751	17,485	24,491	14,381	4,086	474	35	9
Percent	100.0	0.0	7.2	26.5	37.2	21.8	6.2	.7	0.0	0.0

Table 12
PRENATAL CARE AND RACE BY AGE OF MOTHER AND BY LEGITIMACY STATUS
MINNESOTA RESIDENTS, 1986

			Age of Mother					
	Total	Percent	Under 15	15-19	20-29	30-39	40 and Over	Unknown
Legitimate Live Births	55,062*	-	1	1,393	35,777	17,429	456	6
Prenatal Care Started								
1st Trimester	39,755	72.2	1	736	25,842	12,906	267	3
2nd Trimester	6,279	11.4	-	355	4,083	1,749	90	2
3rd Trimester	938	1.7	-	63	626	227	22	-
No Care	265	0.5	-	11	152	96	6	-
Unknown	7,825	14.2	-	228	5,074	2,451	71	1
Race								
White	51,343	93.2	-	1,205	33,412	16,331	390	5
Black	746	1.4	-	21	472	245	8	-
Indian	490	0.9	-	37	349	101	3	-
Out-of-Wedlock Live Births	10,704**	-	53	3,358	6,199	1,038	53	3
Prenatal Care Started								
1st Trimester	5,122	47.9	13	1,435	3,109	543	22	-
2nd Trimester	2,793	26.1	19	1,047	1,481	233	13	-
3rd Trimester	687	6.4	5	263	374	38	7	-
No Care	255	2.4	5	71	149	27	3	-
Unknown	1,847	17.3	11	542	1,086	197	8	3
Race								
White	7,967	74.4	23	2,519	4,654	737	32	2
Black	1,364	12.7	14	417	794	136	2	1
Indian	982	9.2	9	294	562	111	6	-
Legitimate Fetal Deaths	306*	-	-	9	185	99	7	6
Race								
White	273	89.2	-	9	166	87	7	4
Black	6	2.0	-	-	4	2	-	-
Indian	2	0.7	-	-	1	1	-	-
Out-of-Wedlock Fetal Deaths	94**	-	-	31	49	8	1	5
Race								
White	68	72.3	-	24	38	3	1	2
Black	9	9.6	-	4	3	2	-	-
Indian	5	5.3	-	-	3	1	-	1

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* Includes deliveries of other and unknown races

** Includes deliveries of other and unknown races and unknown legitimacy status

Reported Induced Abortions

Table 13
TOTAL REPORTED AND RESIDENT INDUCED ABORTIONS
MINNESOTA 1973-1986

Year	Total Reported Abortions	Minnesota Resident Abortions	Resident Percent	Resident Abortion Rate
1973[1]	7,263	4,169	57.4	5.1
1974[1]	8,732	7,154	81.9	8.6
1975	10,565	8,924	84.5	10.3
1976	14,124	11,109	78.7	12.5
1977	15,532	13,036	83.9	14.4
1978	17,262	14,521	84.1	15.6
1979	18,672	15,647	83.8	16.4
1980	19,028	16,490	86.7	17.2
1981	18,304	15,821	86.4	16.3
1982	17,758	15,559	87.6	15.8
1983	16,428	14,514	88.3	14.7
1984	17,314	15,556	89.8	15.7
1985	17,686	16,002	90.5	16.1
1986	17,383	15,716	90.4	15.8

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[1] Data obtained from the Center for Disease Control.

Table 14
REPORTED INDUCED ABORTIONS
SELECTED SURVEILLANCE RESULTS AND COMPARISONS
MINNESOTA, 1982-1986

Reported Induced Abortions [1]	1986	1985	1984	1983	1982	Percent Change 1985-1986	Percent Change 1982-1986
Total Reported Abortions	17,383	17,686	17,314	16,428	17,758	- 1.7	- 2.1
Minnesota Resident Abortions	15,716	16,002	15,556	14,514	15,559	- 1.8	+ 1.0
Total Monthly Average	1,449	1,474	1,443	1,369	1,480	- 1.7	- 2.1
Resident Monthly Average	1,310	1,334	1,296	1,210	1,297	- 1.8	+ 1.0
Gestational Age [1]							
Proportion <9 weeks	49.1%	46.7%	45.6%	47.9%	47.9%	+ 5.1	+ 2.5
Proportion <13 weeks	87.6%	87.6%	86.5%	87.5%	88.5%	0	- 1.0
Proportion ≥16 weeks	6.2%	5.9%	6.1%	5.6%	4.9%	+ 5.1	+26.5
Client's Age [1]							
Proportion <Age 18	9.8%	9.8%	9.0%	9.9%	10.0%	0	- 2.0
Proportion <Age 20	24.9%	25.6%	25.6%	27.4%	28.0%	- 2.7	-11.1
Proportion Age 20-34	68.3%	68.3%	68.9%	67.2%	59.9%	0	+14.0
Proportion ≥Age 35	6.6%	6.0%	5.5%	5.4%	4.8%	+10.0	+37.5
Contraception [1]							
Proportion "Never Used"	10.8%	14.1%	15.3%	19.3%	20.6%	-23.4	-47.6
Proportion "Used in Past but Not Now" [2]	58.3%	54.3%	56.1%	56.3%	54.5%	+ 7.4	+ 7.0
Proportion "Was Using at Conception"	28.4%	28.5%	25.5%	21.6%	22.0%	- 0.4	+29.1
Complications [1]							
Total per 1,000 Procedures	8.51	9.27	9.99	8.52	6.25	- 8.2	+36.2
Resident per 1,000 Procedures	9.23	10.06	10.48	8.96	6.68	- 8.3	+38.2
Resident - Suction Curettage	9.43	10.35	10.78	9.46	6.97	- 8.9	+35.3
Resident - All Other Methods	6.93	6.81	7.37	4.95	4.24	+ 1.8	+63.4

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[1] Note: All data are Minnesota resident abortion statistics unless "Total" is indicated.

[2] Combines categories "Have Used but Discontinued" and "Interrupted Use of Usual Method", which were reported separately in years prior to 1985.

Table 15
REPORTED INDUCED ABORTIONS
BY SELECTED AGE GROUP BY RESIDENCE
MINNESOTA, 1986

	Total Reported Abortions			Minnesota Resident Abortions			
Age	Number	Percent of Teens	Percent of Total	Number	Percent of Teens	Percent of Residents	Resident Percent of Total
Total	17,383	-	100.0	15,716	-	100.0	90.4
<18	1,702	38.9	9.8	1,545	39.4	9.8	90.8
18-19	2,676	61.1	15.4	2,372	60.6	15.1	88.6
<20	4,378	100.0	25.2	3,917	100.0	24.9	89.5
20-24	6,345	-	36.5	5,724	-	36.4	90.2
25-29	3,636	-	20.9	3,323	-	21.1	91.4
30-34	1,850	-	10.6	1,682	-	10.7	91.9
35+	1,129	-	6.5	1,030	-	6.6	91.2
Unknown	45	-	0.3	40	-	0.3	88.9

FIGURE 1

REPORTED INDUCED ABORTIONS
BY RECIPIENT'S AGE, MINNESOTA, 1986

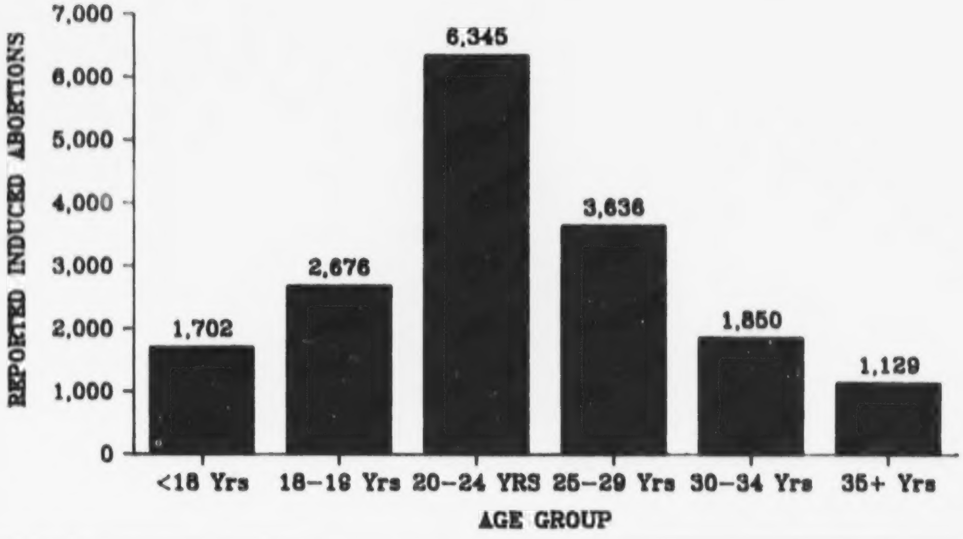

Table 16
REPORTED INDUCED ABORTIONS BY RACE/ETHNIC GROUP AND RESIDENCE
MINNESOTA, 1986

Race	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent
	Number	Percent	Number	Percent	
Total	17,383	100.0	15,716	100.0	90.4
White	15,583	89.6	13,989	89.0	89.8
Black	804	4.6	791	5.0	98.4
Indian	162	0.9	142	0.9	87.7
Hispanic	145	0.8	141	0.9	97.2
Asian	405	2.3	391	2.5	96.5
Other	77	0.4	74	0.5	96.1
Unknown	207	1.2	188	1.2	90.8

Table 17
REPORTED RESIDENT INDUCED ABORTIONS BY RACE AND AGE GROUP
MINNESOTA 1986

Age Group	Race			Total
	White	Non-White	Unknown[1]	
Total	13,989	1,398	329	15,716
≤15	56	27	3	86
15-17	1,297	131	31	1,459
18-19	2,153	178	41	2,372
20-24	5,208	412	104	5,724
25-29	2,935	316	72	3,323
30-34	1,441	197	44	1,682
35+	870	132	28	1,030
Unknown	29	5	6	40

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[1] Includes Hispanic origin.

Table 18
REPORTED INDUCED ABORTIONS BY MARITAL STATUS AND RESIDENCE
MINNESOTA, 1986

Marital Status	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent
	Number	Percent	Number	Percent	
Total	17,383	100.0	15,716	100.0	90.4
Never Married	12,206	70.2	11,040	70.2	90.4
Married	2,424	13.9	2,188	13.9	90.3
Other[1] and Unknown	2,753	15.8	2,488	15.8	90.4

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[1] Other includes: Divorced, Separated, and Widowed

Table 19
REPORTED RESIDENT INDUCED ABORTIONS BY AGE GROUP AND MARITAL STATUS
MINNESOTA, 1986

Age Group	Reported Resident Abortions	Marital Status		
		Never Married	Currently Married	Other[1] and Unknown
Total	15,716	11,040	2,188	2,488
< 18	1,545	1,531	3	11
18-19	2,372	2,285	46	41
20-24	5,724	4,718	465	541
25-29	3,323	1,805	699	819
30-34	1,682	518	530	634
35+	1,030	162	434	434
Unknown	40	21	11	8

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[1] Other includes: Divorced, Separated, and Widowed

Table 20
REPORTED INDUCED ABORTIONS
BY GESTATION AND RESIDENCE
MINNESOTA, 1986

Weeks of Gestation[1] (Post LMP)	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent
	Number	Percent	Number	Percent	
Total	17,383	100.0	15,716	100.0	90.4
< 9	8,435	48.5	7,712	49.1	91.4
9-10	4,486	25.8	4,088	26.0	91.1
11-12	2,177	12.5	1,960	12.5	90.0
13-15	1,095	6.3	982	6.2	89.7
16-20	1,008	5.8	834	5.3	82.8
21+	182	1.0	139	0.9	76.4

---

[1] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

Table 21
REPORTED RESIDENT INDUCED ABORTIONS
BY AGE GROUP BY WEEKS OF GESTATION
MINNESOTA, 1986

Age Group	Reported Resident Abortions	Gestation in Weeks[1] (LMP)					
		<9	9-10	11-12	13-15	16-20	21+
Total	15,716	7,712	4,088	1,960	982	835	139
<18	1,545	508	430	274	157	152	24
18-19	2,372	966	629	342	241	164	30
20-24	5,724	2,900	1,453	703	335	282	51
25-29	3,323	1,794	884	360	137	125	23
30-34	1,682	956	431	166	58	63	8
35+	1,030	565	251	112	50	49	3
Unknown	40	23	10	3	4	0	0

---

[1] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

FIGURE 2

REPORTED INDUCED ABORTIONS BY WEEKS OF GESTATION, MINNESOTA, 1986

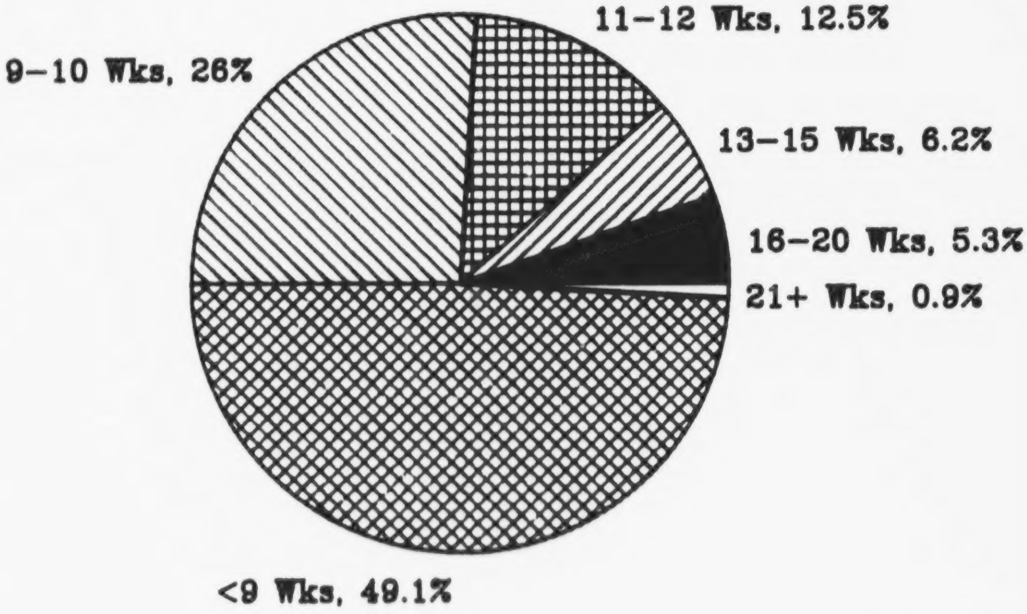


Table 22
PATIENTS REPORTING PRIOR ABORTIONS BY AGE GROUP AND RESIDENCE MINNESOTA, 1986

	Total Reported Abortions			Minnesota Resident Abortions		
Age Group	Number	Abortions[1]	Percent[2]	Number	Abortions[1]	Percent[2]
Total	17,383	5,710	32.8	15,716	5,285	33.6
<18	1,702	133	7.8	1,545	126	8.2
18-19	2,676	461	17.2	2,372	429	18.1
20-24	6,345	2,106	33.2	5,724	1,942	33.9
25-29	3,636	1,716	47.2	3,323	1,591	47.9
30-34	1,850	863	46.6	1,682	794	47.2
35+	1,129	417	36.9	1,030	390	37.9
Unknown	45	14	31.1	40	13	32.5

[1] Number of women who reported at least one prior abortion.

[2] Percentage of women within each age group who reported having had at least one prior abortion.

FIGURE 3

FIRST-TIME VERSUS REPEAT ABORTION
RECIPIENTS BY AGE GROUP, MINNESOTA, 1986

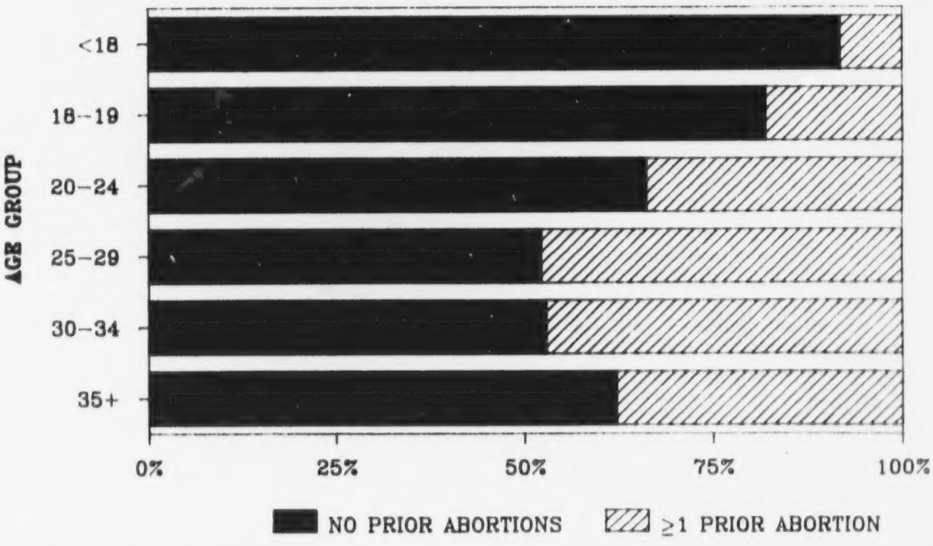


Table 23
REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR ABORTIONS AND RESIDENCE
MINNESOTA, 1986

Number of Prior Abortions	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent of Total
	Number	Percent	Number	Percent	
Total	17,383	100.0	15,716	100.0	90.4
0	11,673	67.2	10,431	66.4	89.4
1	4,041	23.2	3,724	23.7	92.2
2	1,149	6.6	1,067	6.8	92.9
3	342	2.0	323	2.1	94.4
4	107	0.6	103	0.7	96.3
5+	68	0.4	65	0.4	95.6
Unknown	3	0.0	3	0.0	100.0

Table 24
REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR LIVE BIRTHS AND RESIDENCE
MINNESOTA, 1986

Number of Prior Live Births	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent of Total
	Number	Percent	Number	Percent	
Total	17,383	100.0	15,716	100.0	90.4
0	11,307	65.0	10,165	64.7	89.9
1	2,912	16.8	2,696	17.2	92.6
2	2,096	12.1	1,895	12.1	90.4
3	708	4.1	635	4.0	89.7
4	223	1.3	204	1.3	91.5
5	66	0.4	55	0.3	83.3
6	36	0.2	32	0.2	88.9
7	18	0.1	17	0.1	94.4
8+	5	0.0	5	0.0	100.0
Unknown	12	0.1	12	0.1	100.0

Table 25
ABORTION PATIENTS REPORTING PRIOR LIVE BIRTHS BY AGE GROUP AND RESIDENCE
MINNESOTA, 1986

	Total Reported Abortions			Minnesota Resident Abortions		
Age Group	Number	Prior Live Births[1]	Percent[2]	Number	Prior Live Births[1]	Percent[2]
Total	17,383	6,064	34.9	15,716	5,539	35.2
<18	1,702	76	4.5	1,545	74	4.8
18-19	2,676	308	11.5	2,372	284	12.0
20-24	6,345	1,746	27.5	5,724	1,606	28.1
25-29	3,636	1,818	50.0	3,323	1,651	49.7
30-34	1,850	1,204	65.1	1,682	1,094	65.0
35+	1,129	896	79.4	1,030	814	79.0
Unknown	45	16	35.6	40	16	40.0

[1] Number of women who reported at least one prior live birth.

[2] Percentage of women within each age group who reported having had at least one prior live birth.

Table 26
REPORTED RESIDENT INDUCED ABORTIONS BY METHOD BY WEEKS OF GESTATION MINNESOTA, 1986

Method[1]	Reported Resident Abortions	Gestation in Weeks[2] (LMP)				
		<9	9-10	11-12	13-15	16+
Total	15,716	7,712	4,088	1,960	982	974
Vacuum Curettage	14,418	7,696	4,081	1,942	656	43
Dilation & Evacuation	1,282	5	5	17	326	929
Dilation & Curettage	9	8	0	1	0	0
Other[3]	7	3	2	0	0	2

---

[1] See definitions of methods in definitions section.

[2] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

[3] The "Other" category includes: prostaglandin; saline/fluid exchange; menstrual extraction (- pregnancy); menstrual extraction (+ pregnancy); hysterectomy; hysterotomy; and other.

Table 27
REPORTED INDUCED ABORTIONS
BY METHOD BY COMPLICATIONS[1] AND RESIDENCE
MINNESOTA, 1986

	Total Reported Abortions				Minnesota Resident Abortions			
Method[2]	Procedures	Percent	Complications	Rate[3]	Procedures	Percent	Complications	Rate[3]
Total	17,383	100.0	148	8.51	15,716	100.0	145	9.23
Vacuum Curettage	15,838	91.1	139	8.78	14,418	91.7	136	9.43
Dilation & Evacuation	1,528	8.8	7	4.58	1,282	8.2	7	5.46
Dilation & Curettage	10	0.1	0	0.0	9	0.1	0	0.0
Other[4]	7	0.0	2	285.71	7	0.0	2	285.71

---

[1] Reported complications include the categories: hemorrhage (>500 ml), pelvic infection, fever, cervical injury, uterine perforation, retained tissue and other procedure related conditions. In 1982, minor side effects experienced by abortion recipients were for the first time reported as complications. These minor side effects included bleeding (<500 ml), uterine cramping, and elevated temperatures lower than 38° C.

[2] See definitions of methods in definitions section.

[3] Rate is reported complications per 1,000 abortion procedures.

[4] The "Other" category includes: prostaglandin; saline/fluid exchange; menstrual extraction (- pregnancy); menstrual extraction (+ pregnancy); hysterectomy, hysterotomy; and other.

Table 28
MARITAL STATUS BY REPORTED CONTRACEPTIVE USE[1]
MINNESOTA RESIDENTS, 1986

		Reported Contraceptive Use[2]							
Marital Status	Reported Resident Abortions	Never Used	Percent[3]	Used in Past but Not Now	Percent[3]	Was Using	Percent[3]	Unknown	Percent[3]
Total	15,716	1,705	10.8	9,156	58.3	4,470	28.4	385	2.4
Never Married	11,040	1,478	13.4	6,497	58.8	2,822	25.6	243	2.2
Currently Married	2,188	115	5.3	1,182	54.0	821	37.5	70	3.2
Other[4] and Unknown	2,488	112	4.5	1,477	59.4	827	33.2	72	2.9

---

[1] These data relative to contraceptive use are subjective as reporting relies on client recall.

[2] Responses given --
Never used - "I've never used any form of birth control."
Used in Past but Not Now - includes responses similar to "I've used some type of birth control but not when I became pregnant" or "I usually use a method of contraception but through human error it was not effective (missed a pill, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)". Please note that when comparing this category to previous years it will be necessary to combine the categories "Discontinued Use" and "Interrupted Use" which were collected and reported separately prior to the 1984 revision of the collection document.
Was Using - "I was using contraception when I became pregnant."

[3] Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that marital status reporting any contraceptive use.

[4] Other includes: Divorced, Separated, and Widowed.

Table 29
REPORTED INDUCED ABORTIONS
BY AGE GROUP BY TYPE OF CONTRACEPTION AT CONCEPTION*
MINNESOTA RESIDENTS, 1986

Contraceptive Type	Reported Resident Abortions	Age Group						
		<18	18-19	20-24	25-29	30-34	35+	Unknown
Total	15,716	1,545	2,372	5,724	3,323	1,682	1,030	40
None	11,245	1,341	1,931	4,116	2,128	1,020	686	23
Condoms	849	89	155	293	166	91	51	4
Sponge	840	12	48	341	256	124	57	2
Combination Pills	788	48	105	367	187	67	11	3
Diaphragm	734	6	24	221	240	155	84	4
Foam	201	5	8	49	43	49	45	2
Withdrawal	186	18	44	78	24	11	11	0
Rhythm	181	5	15	60	46	36	19	0
Foam & Condom	144	3	15	50	43	21	12	0
Suppositories	138	2	6	50	46	19	14	1
Intrauterine Device	71	2	0	16	25	19	9	0
Male/Female Sterilization	38	1	0	5	13	10	9	0
Natural Family Planning	35	0	0	11	17	5	2	0
Spermicidal Cream/Jelly Alone	29	0	2	10	10	4	3	0
Cervical Cap	25	0	0	2	16	6	1	0
Mini Pills	20	2	2	5	4	7	0	0
Fertility Awareness	5	0	0	0	3	1	1	0
Injectable	1	0	0	0	1	0	0	0
Other	142	7	9	38	44	33	10	1
Unknown	44	4	8	12	11	4	5	0

* These data relative to contraceptive use are subjective as reporting relies on client recall.

Table 30
REPORTED INDUCED ABORTIONS
BY AGE GROUP BY CONTRACEPTIVE USE[1]
MINNESOTA RESIDENTS, 1986

		Reported Contraceptive Use[2]							
Age Group	Reported Resident Abortions	Never Used	Percent[3]	Used in Past but Not Now	Percent[3]	Was Using	Percent[3]	Unknown	Percent[3]
Total	15,716	1,705	10.8	9,156	58.3	4,470	28.4	385	2.4
<15	86	50	58.1	28	32.6	7	8.1	1	1.2
15-17	1,459	477	32.7	749	51.3	197	13.5	36	2.5
18-19	2,372	441	18.6	1,435	60.5	441	18.6	55	2.3
20-24	5,724	473	8.3	3,510	61.3	1,607	28.1	134	2.3
25-29	3,323	150	4.5	1,899	57.1	1,195	36.0	79	2.4
30-34	1,682	64	3.8	912	54.2	662	39.4	44	2.6
35-39	845	33	3.9	493	58.3	293	34.7	26	3.1
40+	185	15	8.1	113	61.1	51	27.6	6	3.2
Unknown	40	2	5.0	17	42.5	17	42.5	4	10.0

---

[1] These data relative to contraceptive use are subjective as reporting relies on client recall.

[2] Responses given --
Never used - "I've never used any form of birth control."
Used in Past but Not Now - includes responses similar to "I've used some type of birth control but not when I became pregnant" or "I usually use a method of contraception but through human error it was not effective (missed a pill, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)". Please note that when comparing this category to previous years it will be necessary to combine the categories "Discontinued Use" and "Interrupted Use" which were collected and reported separately prior to the 1984 revision of the collection document.
Was Using - "I was using contraception when I became pregnant."

[3] Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that age group reporting any contraceptive use.

FIGURE 4

LEVEL OF CONTRACEPTIVE USE BY AGE GROUP
OF ABORTION RECIPIENTS, MINNESOTA, 1986

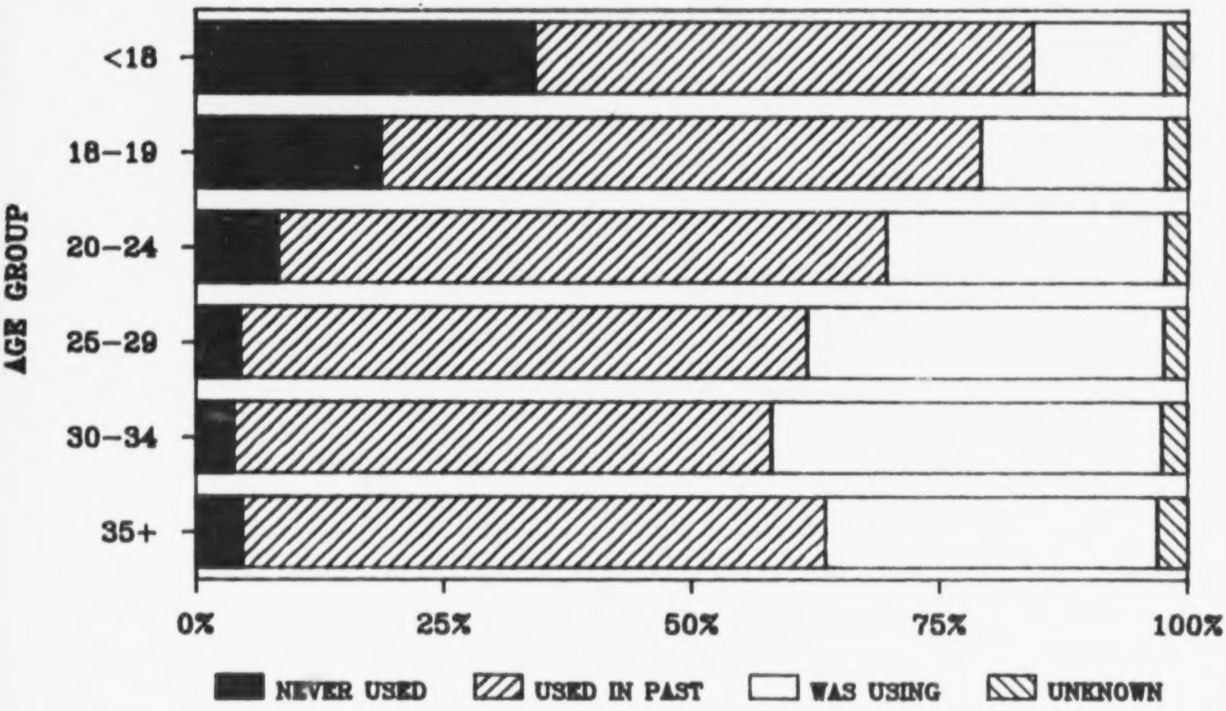


Table 31
REPORTED INDUCED ABORTIONS BY QUARTER AND RESIDENCE MINNESOTA, 1986

	Total Reported Abortions		Minnesota Resident Abortions		
Quarter	Number	Percent	Number	Percent	Resident Percent
Total	17,383	100.0	15,716	100.00	90.4
Jan - Mar	4,593	26.4	4,168	26.5	90.7
Apr - June	4,198	24.2	3,788	24.1	90.2
July - Sept	4,447	25.6	4,027	25.6	90.6
Oct - Dec	4,145	23.8	3,733	23.8	90.1

FIGURE 5

REPORTED INDUCED ABORTIONS BY MONTH PERFORMED, MINNESOTA, 1986

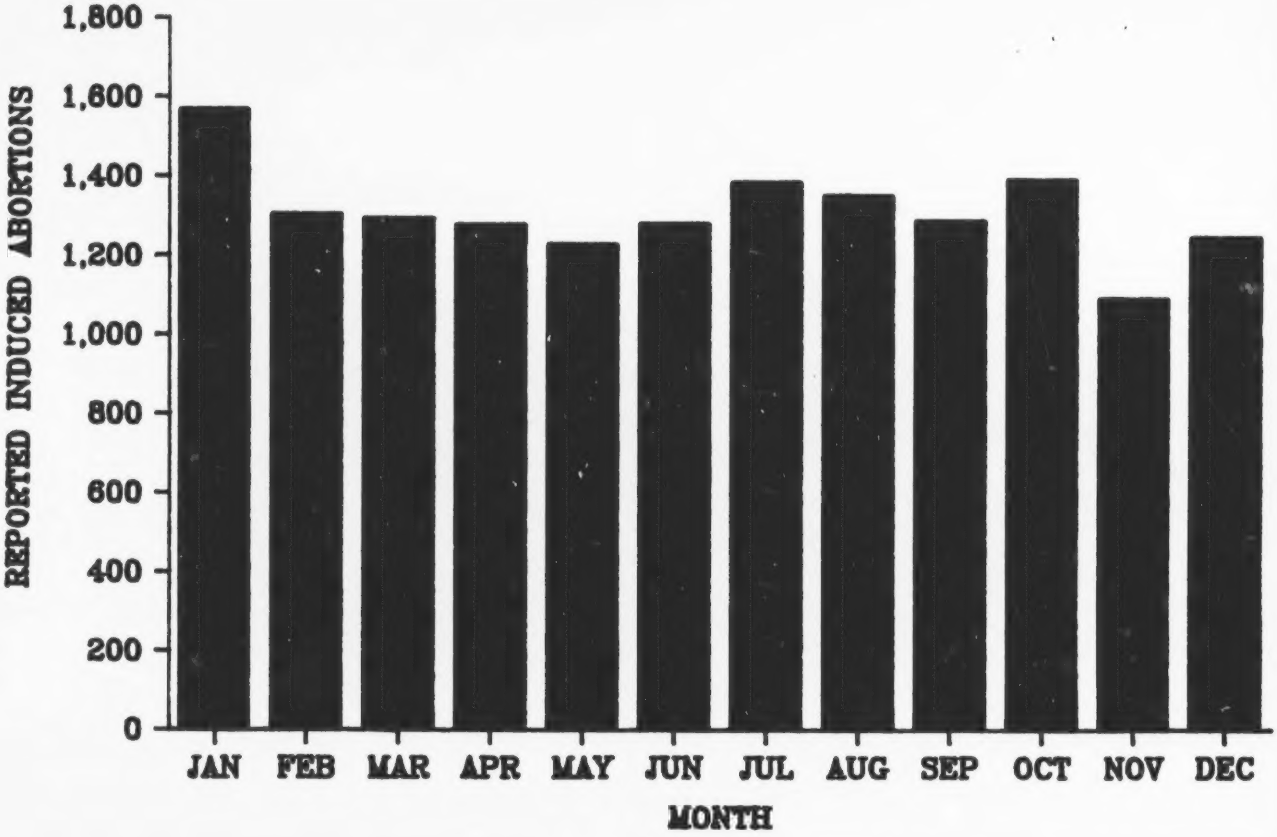


FIGURE 6

REPORTED INDUCED ABORTIONS
MINNESOTA, 1977 - 1986

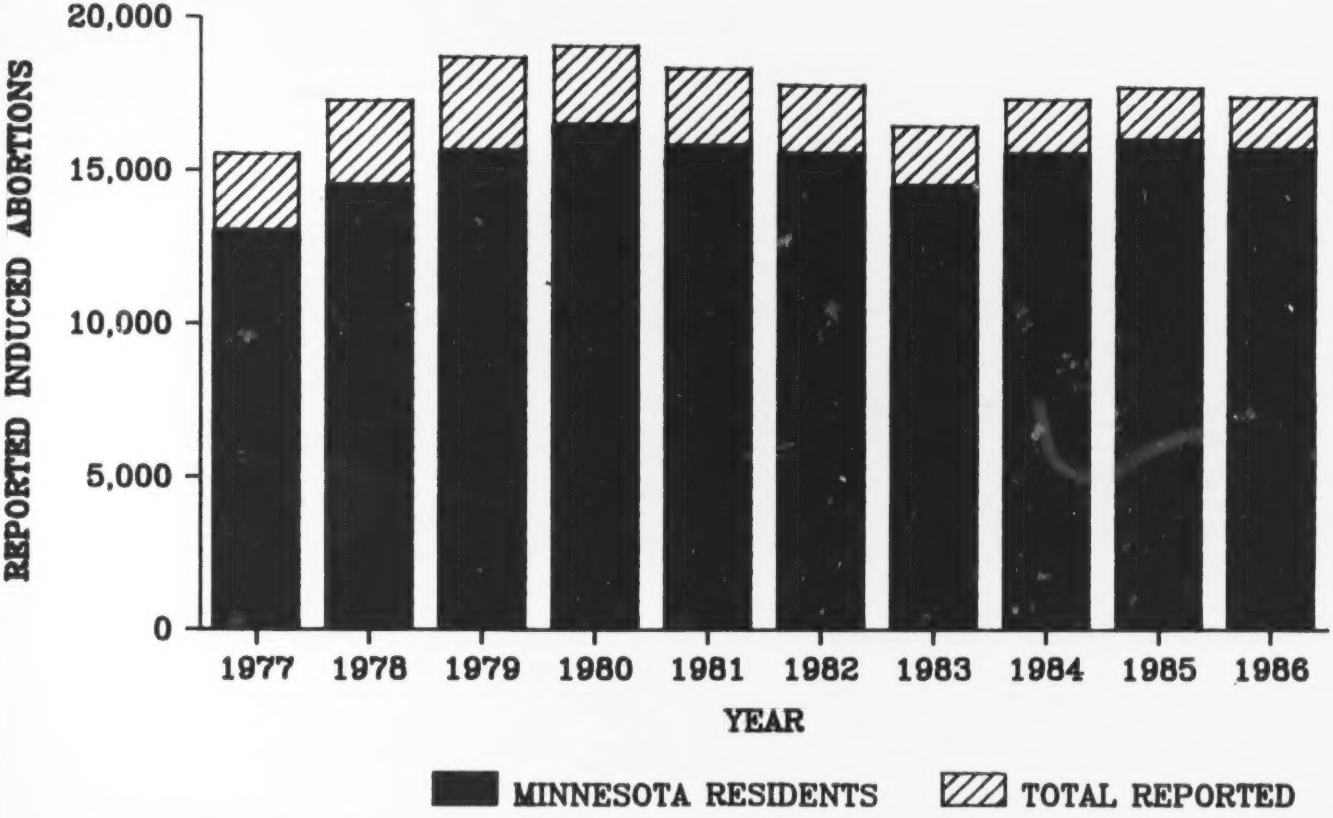
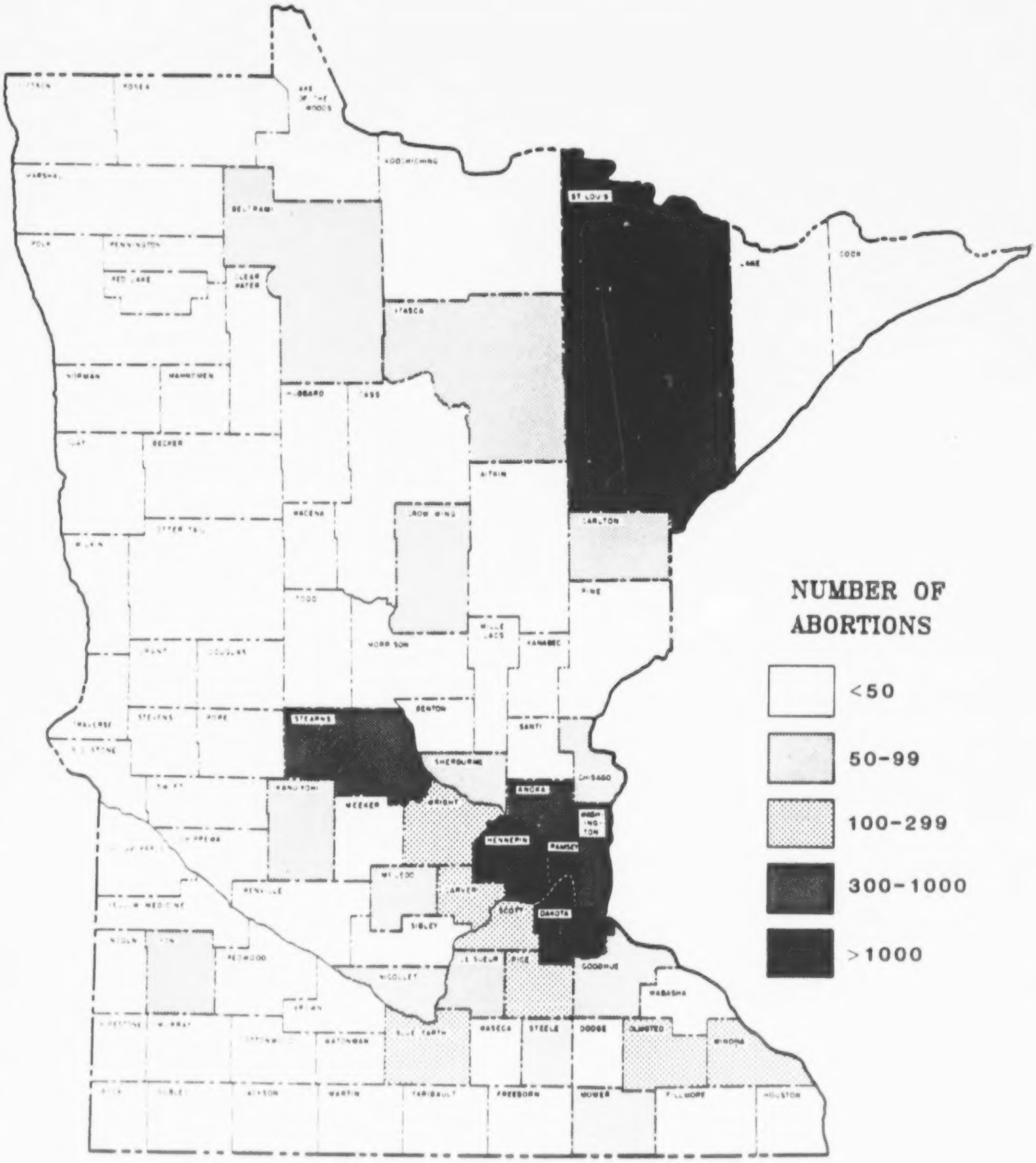


FIGURE 7

REPORTED INDUCED ABORTIONS BY COUNTY
OF RESIDENCE, 1986


NUMBER OF ABORTIONS
<50
50-99
100-299
300-1000
>1000
LAKE OF THE WOODS
KOOCHICHING
ST LOUIS
LAKE
COOK
MARSHALL
BELTRAMI
POLK
PENNINGTON
RED LAKE
CLEAR WATER
ITASCA
NORMAN
MAHNOMEN
HUBBARD
CASS
CLAY
BECKER
AITKIN
WADENA
CROW WING
CARLTON
OTTER TAIL
WILKIN
TODD
PINE
MILLE LACS
GRANT
DOUGLAS
MORRISON
KANABEC
STEARNS
BENTON
TRAVERSE
STEVENS
POPE
SHERBURNE
ISANTI
CHISAGO
KANDIYOHI
MEEKER
WRIGHT
ANOKA
WASHINGTON
HENNEPIN
RAMSEY
CHIPPEWA
MC LEOD
CARVER
RENVILLE
SCOTT
DAKOTA
SIBLEY
REDWOOD
LE SUEUR
RICE
GOODHUE
NICOLLET
WABASHA
WASECA
STEELE
DODGE
OLMSTED
WINONA
BLUE EARTH
MURRAY
COTTONWOOD
WATONWAN
MARTIN
FARIBAULT
FREEBORN
MOWER
FILLMORE
HOUSTON
JACKSON

Minnesota Department of Health — BST

Table 32
REPORTED INDUCED ABORTIONS OCCURRING IN MINNESOTA TO NON-MINNESOTA RESIDENTS BY STATE OR COUNTRY OF RESIDENCE, 1986

State or Foreign Country of Residence	Number	Percent
Total	1,667	100.0
Illinois	15	0.9
Iowa	95	5.7
Michigan	61	3.7
North Dakota	86	5.2
South Dakota	103	6.2
Wisconsin	1,052	63.1
Other U.S. States	71	4.3
Canada	120	7.2
Other Foreign Countries and Unknown	64	3.8

Fertility

Table 33
TOTAL REPORTED PREGNANCIES BY OUTCOME TYPE AND RATE
MINNESOTA RESIDENTS, 1975-1986

Year	Outcome Type: Live Births	Outcome Type: Reported[1] Induced Abortions	Outcome Type: Fetal[2] Deaths	Total[3] Reported Pregnancies	Female Population Ages 15-44	Pregnancy[4] Rate
1975	56,463	8,129	479	65,071	863,882	75.3
1976	56,599	11,109	487	68,195	886,997	76.8
1977	60,284	13,024	471	73,779	902,754	81.7
1978	61,998	14,178	468	76,644	923,409	83.0
1979	65,325	15,639	445	81,409	947,367	85.9
1980	67,843	16,490	449	84,782	958,773	88.4
1981	68,652	15,821	461	84,934	967,087	87.8
1982	68,512	15,559	429	84,500	977,905	86.4
1983	65,559	14,517	457	80,530	981,287	82.0
1984	66,715	15,556	465	82,736	983,004	84.1
1985	67,412	16,002	439	83,853	991,671	84.5
1986	65,766	15,716	400	81,882	997,501	82.1

[1] Includes only those reported induced abortions occurring in Minnesota to Minnesota residents
[2] Includes reported fetal deaths of 20 weeks or more gestation
[3] Excludes miscarriages
[4] Number of pregnancies per 1,000 women in the population of ages 15 through 44

Table 34
PREGNANCY OUTCOMES AND PREGNANCY RATES* BY AGE OF WOMAN
MINNESOTA RESIDENTS, SELECTED YEARS, 1980-1986

	Age of Woman									
Year	Total**	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+	Unknown
1980										
Live Births	67,843	45	1,988	5,000	22,546	24,035	11,300	2,485	437	7
Fetal Deaths	449	1	13	38	140	131	79	29	9	9
Induced Abortions	16,490	104	2,223	3,380	6,054	2,823	1,219	491	183	13
Total Pregnancies***	84,782	150	4,224	8,418	28,740	26,989	12,598	3,005	629	29
Age Specific Pregnancy Rate****	80.2	1.5	36.9	101.3	144.6	149.3	80.5	24.4	6.2	-
1983										
Live Births	65,559	53	1,521	3,756	19,844	23,734	13,042	3,154	451	4
Fetal Deaths	457	2	15	35	137	134	85	36	5	8
Induced Abortions	14,517	96	1,337	2,548	5,488	2,871	1,359	607	176	35
Total Pregnancies***	80,533	151	2,873	6,339	25,469	26,739	14,486	3,797	632	47
Age Specific Pregnancy Rate****	74.8	1.6	27.4	82.9	128.3	141.0	87.0	27.7	5.8	-
1984										
Live Births	66,715	50	1,604	3,608	19,417	24,348	13,676	3,523	478	11
Fetal Deaths	465	-	19	24	136	139	106	31	6	4
Induced Abortions	15,556	90	1,305	2,586	6,032	3,111	1,575	627	212	18
Total Pregnancies***	82,736	140	2,928	6,218	25,585	27,598	15,357	4,181	696	33
Age Specific Pregnancy Rate****	77.1	1.6	30.7	89.1	134.7	143.4	89.4	28.6	5.9	-
1985										
Live Births	67,412	55	1,518	3,509	18,968	24,797	14,283	3,804	467	11
Fetal Deaths	439	-	15	26	109	155	93	25	8	8
Induced Abortions	16,002	103	1,467	2,531	6,067	3,216	1,641	758	198	21
Total Pregnancies***	83,853	158	3,000	6,066	25,144	28,168	16,017	4,587	673	40
Age Specific Pregnancy Rate****	77.5	1.7	31.2	86.3	121.2	145.0	92.3	31.1	5.7	-
1986										
Live Births	65,766	54	1,572	3,179	17,485	24,491	14,381	4,086	509	9
Fetal Deaths	400	-	15	25	109	125	83	24	8	11
Induced Abortions	15,716	86	1,459	2,372	5,724	3,323	1,682	845	185	40
Total Pregnancies***	81,882	140	3,046	5,576	23,318	27,939	16,146	4,955	702	60
Age Specific Pregnancy Rate****	75.2	1.5	30.0	75.5	115.8	146.2	94.9	34.6	6.0	-

---

* Rate comparisons among years must be interpreted cautiously due to adjustments made in the 1986 age-specific population estimates.

** For purposes of this table total pregnancy rates are calculated per 1,000 female population of ages 12 through 44.

*** Does not include miscarriages.

**** Total pregnancies within a specified age group per 1,000 female population within the same age group.

Infant Mortality and Fetal Deaths

Table 35
INFANT, NEONATAL AND POSTNEONATAL DEATHS BY CAUSE
MINNESOTA RESIDENTS, 1986

		Neonatal				
Causes of Death	Infant Deaths	Total	Under 1 Day	1-6 Days	7-27 Days	Post-neonatal
Total All Causes	606	365	187	97	81	241
Certain conditions originating in the perinatal period	227	213	124	57	32	14
Respiratory distress syndrome	56	53	23	21	9	3
Maternal conditions	45	45	40	4	1	-
Selected respiratory conditions of fetus and newborn	32	24	12	7	5	8
Short gestation and low birth weight	29	29	26	2	1	-
Intrauterine hypoxia and birth asphyxia	18	16	6	9	1	2
Birth trauma	6	6	1	3	2	-
Fetal and neonatal hemorrhage	5	5	-	2	3	-
Congenital anomalies	158	119	56	33	30	39
Of heart	43	24	4	7	13	19
Chromosomal anomalies	24	17	4	4	9	7
Of respiratory system	21	19	10	8	1	2
Anencephalus and similar anomalies	17	17	13	3	1	-
Of urinary system	11	11	9	1	1	-
Symptoms, signs, and ill-defined conditions	121	4	-	-	4	117
Sudden infant death syndrome	120	4	-	-	4	116
Diseases of the respiratory system	18	5	1	2	2	13
Pneumonia and influenza	10	1	-	-	1	9
Diseases of the circulatory system	17	6	-	2	4	11
Unintentional injury	16	2	-	-	2	14
Motor vehicle	4	2	-	-	2	2
Mechanical suffocation	4	-	-	-	-	4
Diseases of the digestive system	11	2	2	-	-	9
Infective and parasitic diseases	9	3	-	-	3	6
Septicemia	4	-	-	-	-	4
Diseases of the nervous system and sense organs	8	1	-	-	1	7
Neoplasms	6	1	-	1	-	5
Malignant neoplasms	2	-	-	-	-	2
Endocrine, nutritional, and metabolic diseases and immunity disorders	6	4	1	-	3	2
Diseases of the blood and blood forming organs	3	2	1	1	-	1
Diseases of the musculoskeletal system and connective tissue	2	2	1	1	-	-
Homicide	2	-	-	-	-	2
Injury undetermined whether unintentionally or purposely inflicted	2	1	1	-	-	1

Table 36
FETAL DEATHS OF 20 WEEKS AND OVER BY CAUSE AND WEIGHT OF FETUS
MINNESOTA RESIDENTS, 1986

Cause of Death	Total Fetal Deaths	Weight in Grams									
		999 or Less	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 to 3,499	3,500 to 3,999	4,000 to 4,499	4,500 and Over	Weight Unknown
Total - All Causes	400	114	35	16	27	31	42	17	5	2	111
Complications of Placenta, Cord, or Membranes	152	33	16	5	9	11	17	11	1	2	47
Congenital Anomalies	53	19	8	3	2	3	3	-	1	-	14
Anencephalus and Similar Anomalies	(13)	(5)	(2)	(-)	(-)	(1)	(-)	(-)	(-)	(-)	(5)
Hydrocephalus	(3)	(1)	(-)	(-)	(-)	(-)	(2)	(-)	(-)	(-)	(-)
Maternal Conditions Related to Pregnancy	38	24	-	-	1	-	-	-	1	-	12
Maternal Conditions Unrelated to Pregnancy	18	6	-	2	1	1	2	-	-	-	6
Short Gestation and Low Birthweight	11	6	-	-	-	-	-	-	-	-	5
Other Diseases or Conditions Specific to the Perinatal Period	9	-	2	-	2	1	-	-	-	-	4
Hypoxia and Birth Asphyxia	4	-	-	1	-	-	-	-	-	-	3
Syndrome of "Infant of a Diabetic Mother"	3	-	-	-	-	-	1	1	-	-	1
Hemolytic Disease of Fetus	3	1	1	-	-	-	-	-	-	-	1
Complications of Labor and Delivery	2	1	-	1	-	-	-	-	-	-	-
Malpresentation of Fetus	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Slow Fetal Growth and Fetal Malnutrition	2	-	-	-	1	-	-	-	-	-	1
Other Diseases Not Specific to Perinatal Period	2	-	-	-	-	-	-	-	-	-	2
Ill-defined Conditions Originating in Perinatal Period	103	24	8	4	11	15	19	5	2	-	15

General Mortality

Every day in 1986, residents of Minnesota experienced an average of:

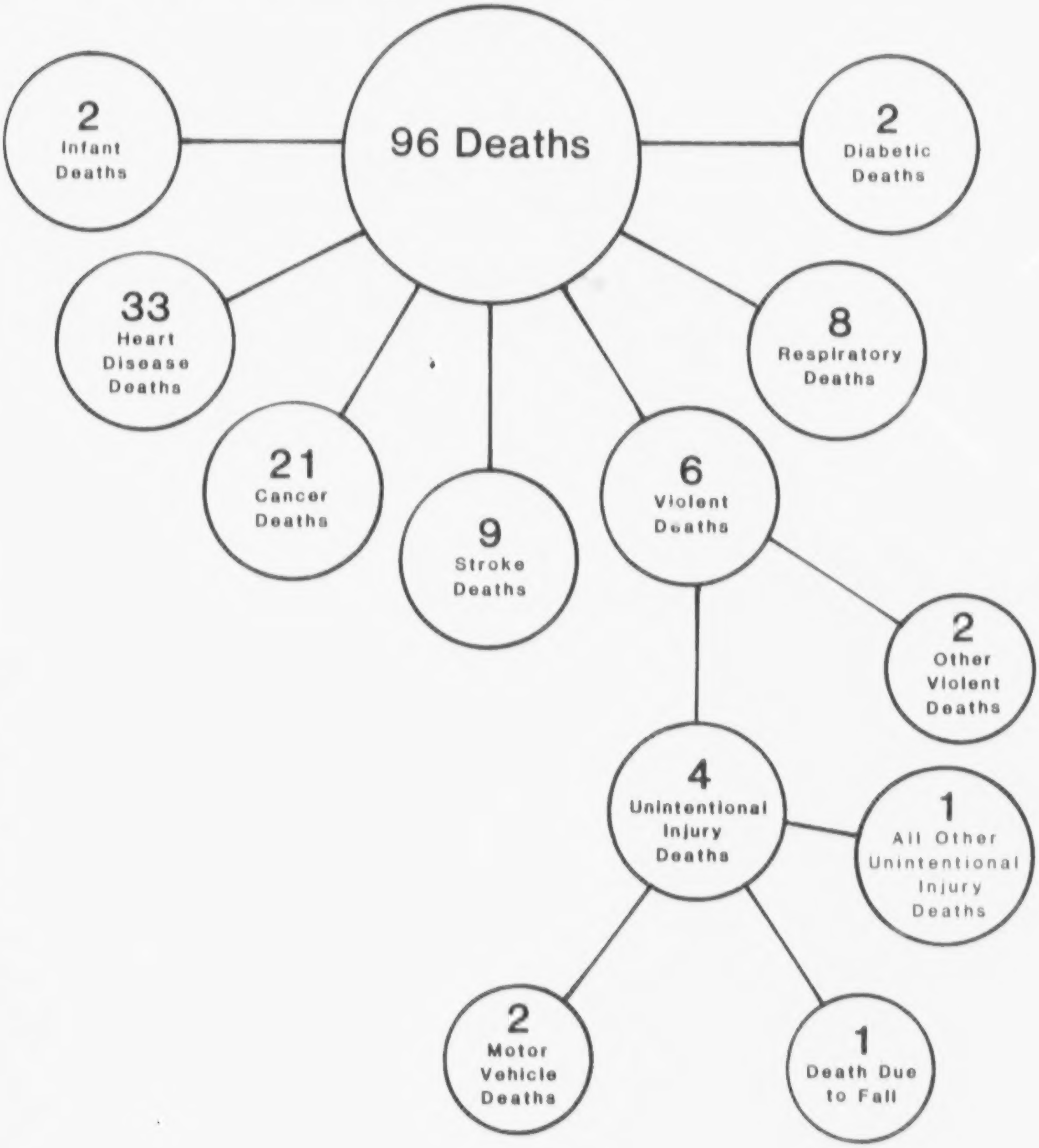

96 Deaths
2 Infant Deaths
2 Diabetic Deaths
33 Heart Disease Deaths
8 Respiratory Deaths
21 Cancer Deaths
9 Stroke Deaths
6 Violent Deaths
2 Other Violent Deaths
4 Unintentional Injury Deaths
1 All Other Unintentional Injury Deaths
2 Motor Vehicle Deaths
1 Death Due to Fall

Table 37
DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH
MINNESOTA, 1986

	Deaths Occurring in County				Resident Deaths		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
State Total	35,245	27,675	5,982	1,588	5,982	1,413	35,070
Aitkin	135	115	19	1	45	4	164
Anoka	915	615	285	15	262	13	890
Becker	247	209	33	5	41	45	295
Beltrami	272	230	39	3	37	21	288
Benton	172	141	31	-	107	4	252
Big Stone	83	60	13	10	17	6	83
Blue Earth	490	365	122	3	50	5	420
Brown	272	194	74	4	46	7	247
Carlton	293	245	46	2	48	4	297
Carver	229	144	82	3	110	-	254
Cass	171	141	25	5	154	12	307
Chippewa	151	125	25	1	41	3	169
Chisago	191	160	28	3	64	20	244
Clay	264	220	27	17	20	154	394
Clearwater	102	93	9	-	10	3	106
Cook	49	43	3	3	10	5	58
Cottonwood	135	122	12	1	32	11	165
Crow Wing	489	388	93	8	70	9	467
Dakota	751	605	120	26	415	32	1,052
Dodge	75	66	7	2	60	4	130
Douglas	301	251	50	-	38	4	293
Faribault	164	139	14	11	59	7	205
Fillmore	210	184	20	6	79	28	291
Freeborn	338	283	42	13	44	11	338
Goodhue	384	336	36	12	97	3	436
Grant	77	58	19	-	27	4	89
Hennepin	9,024	7,187	1,503	334	542	109	7,838
Minneapolis	4,446	2,807	1,448	191	1,053	56	3,916
Houston	113	98	11	4	5	58	161
Hubbard	187	127	52	8	21	17	165
Isanti	206	152	54	-	35	3	190
Itasca	384	319	57	8	81	8	408
Jackson	109	95	13	1	32	17	144
Kanabec	95	71	22	2	33	2	106
Kandiyohi	406	301	101	4	47	7	355
Kittson	100	76	24	-	4	16	96
Koochiching	108	98	8	2	36	5	139
Lac Qui Parle	113	106	3	4	29	2	137
Lake	100	94	6	-	15	2	111
Lake of the Woods	35	31	2	2	6	7	44
Le Sueur	150	126	23	1	94	6	226
Lincoln	95	67	17	11	9	8	84
Lyon	196	160	33	3	37	35	232
McLeod	279	209	68	2	66	5	280
Mahnomen	42	41	1	-	11	9	61
Marshall	76	68	6	2	65	18	151
Martin	259	217	22	20	38	16	271
Meeker	181	150	29	2	60	-	210
Mille Lacs	188	144	44	-	51	1	196
Morrison	228	197	27	4	56	5	258
Mower	328	304	21	3	92	21	417

Table 37

DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH, MINNESOTA, 1986 (CONT.)

	Deaths Occurring in County				Resident Deaths		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Murray	89	79	9	1	23	17	119
Nicollet	149	130	19	-	90	-	220
Nobles	176	144	21	11	21	39	204
Norman	90	84	5	1	22	24	130
Olmsted	1,471	531	459	481	37	12	580
Otter Tail	557	505	47	5	83	51	639
Pennington	227	150	75	2	15	7	172
Pine	131	112	19	-	105	7	224
Pipestone	111	96	13	2	10	81	137
Polk	345	275	45	25	20	95	390
Pope	146	133	13	-	24	-	157
Ramsey	4,323	3,455	723	145	441	81	3,977
St. Paul	3,423	2,330	959	134	355	47	2,732
Red Lake	32	30	2	-	32	12	74
Redwood	190	151	39	-	71	5	227
Renville	160	134	26	-	72	3	209
Rice	370	310	55	5	57	4	371
Rock	82	67	13	2	7	19	93
Roseau	99	98	1	-	17	18	133
St. Louis	2,458	2,110	164	184	102	33	2,245
Duluth	1,438	1,027	238	173	97	23	1,147
Scott	280	187	90	3	66	4	257
Sherburne	159	108	50	1	142	5	255
Sibley	107	101	5	1	61	-	162
Stearns	827	519	297	11	111	6	636
Steele	198	180	16	2	70	2	252
Stevens	106	92	11	3	16	1	109
Swift	118	105	13	-	47	4	156
Todd	137	125	9	3	87	6	218
Traverse	63	40	11	12	18	12	70
Wabasha	181	140	24	17	49	3	192
Wadena	232	151	80	1	22	19	192
Waseca	135	123	12	-	68	2	193
Washington	415	338	68	9	238	45	621
Watonwan	116	97	19	-	42	3	142
Wilkin	109	49	4	56	8	10	67
Winona	373	322	22	29	41	29	392
Wright	358	302	54	2	160	2	464
Yellow Medicine	163	132	28	3	34	6	172
Unknown	-	-	-	-	5	-	5

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	35,070 *	606	102	70	71	296	293	275	329	381	434	573	920	1,399	2,223	3,045	4,139	4,736	5,343	9,833
		M	18,183 **	361	65	43	47	212	211	204	236	242	272	344	565	882	1,415	1,892	2,496	2,617	2,568	3,510
		F	16,886	245	37	27	24	84	82	71	93	139	162	229	355	517	808	1,153	1,643	2,119	2,775	6,323
000-139 I.	INFECTIOUS AND PARASITIC DISEASES	T	362	9	3	3	2	-	4	8	14	7	5	9	8	11	22	29	34	45	42	107
		M	178	5	2	1	1	-	3	6	11	4	3	5	6	4	11	14	19	21	20	42
		F	184	4	1	2	1	-	1	2	3	3	2	4	2	7	11	15	15	24	22	65
001-009	Intestinal Infectious Diseases	T	8	1	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	2	1	1
		M	4	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	1
004	Shigellosis	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
010-018, 137	Tuberculosis (Including Late Effects Of)	T	19	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	1	2	4	8
		M	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5
		F	12	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	1	2	2	3
010-012	Respiratory Tuberculosis (Active)	T	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2
		M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
		F	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1
013-018	Other Tuberculosis (Active)	T	4	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	3
		M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
		F	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
137	Late Effects of Tuberculosis	T	10	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	3	3
		M	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
		F	7	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	2	1
032	Diphtheria	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
033	Whooping Cough	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
034-035	Streptococcal Sore Throat, Scarlatina, and Erysipelas	T	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
036	Meningococcal Infection	T	4	1	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-
		M	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
		F	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-
037	Tetanus	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
038	Septicemia	T	208	4	1	1	-	-	-	1	2	1	1	1	2	6	11	20	19	30	30	78
		M	92	1	1	-	-	-	-	-	1	-	-	-	2	3	5	10	10	15	15	29
		F	116	3	-	1	-	-	-	1	1	1	1	1	-	3	6	10	9	15	15	49
045	Acute Poliomyelitis	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
055	Measles	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
062-064	Viral Encephalitis (Acute)	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
070	Viral Hepatitis	T	7	-	-	-	-	-	-	-	1	1	1	1	-	-	1	1	-	1	-	-
		M	4	-	-	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	-
		F	3	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-
090-097	Syphilis	T	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
		M	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual	Other Infectious and Parasitic Diseases	T	113	3	2	1	2	-	4	7	10	5	3	6	4	3	7	6	14	10	6	20
		M	67	2	1	-	1	-	3	6	10	3	2	4	3	1	4	3	9	6	1	8
		F	46	1	1	1	1	-	1	1	-	2	1	2	1	2	3	3	5	4	5	12

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	35,073 *	606	102	70	71	296	291	275	329	481	434	573	890	1,399	2,223	3,245	4,139	4,736	5,343	9,833
		M	18,187 **	361	65	43	47	212	211	204	236	342	272	344	535	882	1,415	1,892	2,496	2,617	2,568	3,510
		F	16,886	245	37	27	24	84	80	71	93	139	162	229	355	517	808	1,353	1,643	2,119	2,775	6,323
140-239 II.	NEOPLASMS	T	7,803	6	5	10	8	19	27	37	54	86	121	198	293	558	863	1,023	1,224	1,127	1,037	1,347
		M	4,124	2	4	7	7	9	11	26	28	34	49	81	111	305	493	574	708	608	541	470
		F	3,679	4	1	3	1	10	16	11	26	52	72	117	182	253	370	449	516	519	496	877
140-208	Malignant Neoplasms	T	7,672	3	4	9	5	19	27	35	51	86	117	193	293	552	854	1,013	1,212	1,112	1,016	1,313
		M	4,064	–	3	6	4	9	11	24	26	34	48	80	111	301	487	570	699	601	530	461
		F	3,608	3	1	3	1	10	16	11	25	52	69	113	182	251	367	443	513	511	486	852
140-149	Of Lip, Oral Cavity and Pharynx	T	114	–	–	–	–	–	–	1	1	1	1	1	[illegible]	20	19	18	16	7	10	11
		M	[illegible]	–	–	–	–	–	–	1	–	1	1	–	[illegible]	14	15	11	11	5	5	6
		F	40	–	–	–	–	–	–	–	1	–	–	1	[illegible]	6	4	7	5	2	5	5
150-159	Of Digestive Organs and Peritoneum	T	2,058	–	–	–	–	–	2	1	7	15	14	41	77	131	186	298	328	334	304	319
		M	1,073	–	–	–	–	–	2	1	3	11	13	29	54	83	113	162	174	166	147	115
		F	985	–	–	–	–	–	–	–	4	4	1	12	23	48	73	136	154	168	157	204
150	Of Esophagus	T	146	–	–	–	–	–	–	–	–	–	–	1	10	12	29	21	27	24	11	9
		M	110	–	–	–	–	–	–	–	–	–	–	1	9	8	22	16	20	21	8	5
		F	36	–	–	–	–	–	–	–	–	–	–	–	1	4	7	5	7	3	3	4
151	Of Stomach	T	253	–	–	–	–	–	–	1	2	3	1	10	8	11	17	40	39	42	30	30
		M	157	–	–	–	–	–	–	–	2	3	1	[illegible]	7	10	13	34	30	26	15	17
		F	96	–	–	–	–	–	–	1	–	–	–	[illegible]	1	1	4	6	9	16	15	13
152	Of Small Intestine, Including Duodenum	T	11	–	–	–	–	–	–	–	1	1	–	–	2	2	1	1	1	1	–	1
		M	7	–	–	–	–	–	–	–	1	1	–	–	1	1	1	–	1	1	–	–
		F	4	–	–	–	–	–	–	–	–	–	–	–	1	1	–	1	–	–	–	1
153	Of Colon	T	853	–	–	–	–	–	1	1	[illegible]	6	7	11	25	33	72	111	115	127	143	146
		M	426	–	–	–	–	–	1	1	–	3	4	8	10	22	34	65	64	66	70	53
		F	427	–	–	–	–	–	–	–	[illegible]	3	3	3	15	11	38	46	51	61	73	93
154	Of Rectum, Rectosigmoid Junction and Anus	T	139	–	–	–	–	–	–	1	1	2	1	1	[illegible]	[illegible]	[illegible]	10	25	19	24	22
		M	68	–	–	–	–	–	–	1	–	1	1	–	[illegible]	[illegible]	[illegible]	4	14	11	13	11
		F	71	–	–	–	–	–	–	–	1	1	–	1	[illegible]	[illegible]	1	6	11	8	11	11
160-165	Of Respiratory System	T	1,725	–	–	–	–	–	–	–	2	1	30	43	97	169	257	270	324	237	160	103
		M	1,175	–	–	–	–	–	–	–	1	–	19	21	57	150	179	181	237	174	118	64
		F	550	–	–	–	–	–	–	–	1	1	11	22	40	19	78	89	87	63	42	39
162	Of Trachea, Bronchus and Lung	T	1,661	–	–	–	–	–	–	–	1	1	27	40	96	161	250	257	310	228	153	101
		M	1,130	–	–	–	–	–	–	–	1	–	16	21	56	144	174	175	226	164	111	63
		F	531	–	–	–	–	–	–	–	–	1	11	19	40	17	76	82	84	64	42	38
170-175	Of Bone, Connective Tissue, Skin and Breast	T	873	–	–	–	–	6	6	7	10	28	31	49	64	81	99	106	114	106	75	89
		M	95	–	–	–	–	1	1	3	3	4	6	5	3	10	7	17	8	10	3	7
		F	778	–	–	–	–	5	5	4	7	24	25	44	61	71	92	89	106	96	72	82
172-173	Of Skin	T	105	–	–	–	–	1	3	3	5	6	3	3	11	11	11	4	11	12	10	10
		M	53	–	–	–	–	1	–	2	4	3	1	3	8	7	5	1	7	6	7	6
		F	52	–	–	–	–	–	3	1	1	3	2	–	3	4	6	3	4	6	3	4
174-175	Of Breast	T	693	–	–	–	–	–	–	2	16	14	28	33	58	61	56	59	[illegible]	50	63	73
		M	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	1	–
		F	689	–	–	–	–	–	–	2	16	14	28	33	58	61	56	58	[illegible]	50	62	73
179-189	Of Genitourinary Organs	T	1,323	–	–	–	–	–	3	3	4	7	15	25	48	54	123	138	235	221	224	250
		M	751	–	–	–	–	–	2	1	1	–	4	9	17	28	46	79	144	143	148	167
		F	572	–	–	–	–	–	1	2	3	7	11	16	31	26	77	59	91	78	76	83
179-182	Of Uterus, Cervix and Placenta	T	151	–	–	–	–	–	–	1	1	3	4	[illegible]	11	[illegible]	15	21	15	26	23	26
		M	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		F	151	–	–	–	–	–	–	1	1	3	4	[illegible]	11	[illegible]	15	21	15	26	23	26
185	Of Prostate	T	553	–	–	–	–	–	–	–	–	–	–	–	5	11	[illegible]	52	106	137	115	110
		M	553	–	–	–	–	–	–	–	–	–	–	–	5	11	[illegible]	52	106	137	115	110
		F	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
190-199	Of Other and Unspecified Sites	T	754	1	2	1	1	5	5	8	14	15	8	20	28	59	48	61	101	89	89	102
		M	401	–	2	1	1	4	4	7	10	8	4	9	20	38	37	52	54	47	42	41
		F	353	1	–	–	–	1	1	1	4	7	4	11	8	21	11	9	47	42	47	61
191-192	Of Brain and Other Parts of Central Nervous System	T	200	–	1	1	1	4	2	5	12	14	4	11	11	[illegible]	32	25	21	18	12	4
		M	112	–	1	1	1	3	1	5	7	8	3	10	7	[illegible]	21	14	9	9	5	–
		F	88	–	–	–	–	1	1	–	5	6	1	1	4	[illegible]	11	11	12	9	7	4

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

9th Revision No.		Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
		ALL CAUSES, Total	T	35,070 *	606	102	70	71	296	293	275	329	381	434	573	825	1,399	2,223	3,046	4,139	4,736	5,343	9,833
			M	18,183 **	361	66	43	47	212	211	204	236	247	272	344	566	882	1,415	1,892	2,496	2,617	2,568	3,510
			F	16,886	245	37	27	24	84	82	71	93	134	162	229	259	517	808	1,153	1,643	2,119	2,775	6,323
200-208		Of Lymphatic and Hematopoietic Tissue	T	837	1	2	6	4	6	11	13	11	13	14	22	22	41	77	98	114	[illegible]	136	135
			M	432	-	1	3	3	2	4	7	6	3	5	12	18	21	44	57	64	[illegible]	61	61
			F	405	1	1	3	1	4	7	6	5	10	9	10	4	20	33	41	50	[illegible]	75	74
201		Hodgkin's Disease	T	31	-	-	-	-	-	3	7	2	2	1	1	1	2	2	3	4	1	1	1
			M	17	-	-	-	-	-	1	5	1	-	-	-	1	1	-	2	4	-	1	1
			F	14	-	-	-	-	-	2	2	1	2	1	1	-	1	2	1	-	1	-	-
204-208		Leukemia	T	344	-	1	5	3	6	5	4	6	9	5	9	7	18	23	38	48	32	50	56
			M	193	-	1	3	3	2	3	2	4	4	4	6	7	8	16	24	26	18	39	30
			F	151	-	-	2	-	4	2	2	2	5	1	3	-	10	7	14	22	14	11	26
210-239		Benign Neoplasms and Neoplasms of Uncertain Behavior	T	133	4	1	1	1	-	-	1	3	-	4	5	4	6	9	10	12	15	21	36
			M	60	2	1	1	1	-	-	1	2	-	1	1	2	4	6	4	6	8	11	[illegible]
			F	73	2	-	-	-	-	-	-	1	-	3	4	2	2	3	6	6	7	10	[illegible]
240-279	III.	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES AND IMMUNITY DISORDERS	T	874	6	4	1	4	1	-	8	12	20	21	18	23	32	48	82	110	108	115	[illegible]
			M	397	2	1	1	2	1	-	6	10	15	10	11	11	15	21	50	61	52	58	[illegible]
			F	477	4	3	-	2	-	-	2	2	5	11	7	12	17	27	32	49	56	57	[illegible]
250		Diabetes Mellitus	T	611	-	-	-	1	1	-	4	6	6	11	15	20	27	35	62	76	79	111	150
			M	266	-	-	-	-	1	-	2	5	2	3	9	9	13	15	35	41	42	41	46
			F	345	-	-	-	1	-	-	2	1	4	8	6	11	14	20	27	35	37	70	104
260-269		Nutritional Deficiencies	T	67	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	6	17	40
			M	24	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	6	14
			F	43	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	4	11	26
Residual		(240-249, 251-259, 270-279)	T	196	6	4	1	3	-	-	4	6	14	10	3	3	4	11	17	15	20	25	47
			M	107	2	1	1	2	-	-	4	[illegible]	11	7	[illegible]	[illegible]	[illegible]	[illegible]	14	12	9	11	16
			F	89	4	3	-	1	-	-	-	1	3	3	1	1	[illegible]	[illegible]	[illegible]	3	11	14	31
280-289	IV.	DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	T	129	3	-	-	-	1	1	2	2	1	-	1	6	4	5	13	12	16	22	40
			M	58	1	-	-	-	1	-	1	1	1	-	-	3	1	4	7	6	8	10	14
			F	71	2	-	-	-	-	1	1	1	-	-	1	3	3	1	6	6	8	12	26
280-285		Anemias	T	62	1	-	-	-	-	-	2	1	1	-	1	2	2	2	3	2	6	10	24
			M	27	-	-	-	-	-	-	1	-	1	-	-	2	1	1	2	1	2	2	8
			F	35	1	-	-	-	-	-	1	1	-	-	1	-	1	1	1	1	4	8	16
Residual		(286-289)	T	67	2	-	-	-	1	1	-	1	-	-	1	4	2	6	10	10	10	7	14
			M	31	1	-	-	-	1	-	-	1	-	-	-	1	[illegible]	3	5	5	4	3	5
			F	36	1	-	-	-	-	1	-	-	-	-	1	3	[illegible]	1	[illegible]	[illegible]	5	4	9
290-319	V.	MENTAL DISORDERS	T	487	-	1	-	1	-	1	4	4	2	2	1	11	9	12	25	32	60	97	226
			M	187	-	-	-	1	-	-	3	3	1	1	1	3	7	9	11	21	34	39	54
			F	300	-	1	-	-	-	1	1	1	2	2	-	8	2	3	14	11	26	58	172
320-389	VI.	DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	T	694	8	5	2	1	4	7	6	7	1	7	9	20	23	35	47	87	124	144	157
			M	349	6	3	2	1	4	4	5	5	1	4	6	9	14	16	26	48	75	56	64
			F	345	2	2	-	-	-	3	1	2	-	3	3	11	9	19	21	39	49	88	93
320-322		Meningitis (Excludes Infective Meningitis)	T	14	1	-	1	-	-	-	-	-	-	-	-	-	[illegible]	[illegible]	[illegible]	1	1	-	1
			M	7	1	-	1	-	-	-	-	-	-	-	-	-	[illegible]	[illegible]	1	-	-	-	-
			F	7	-	-	-	-	-	-	-	-	-	-	-	-	1	1	[illegible]	1	1	-	1
332		Parkinson's Disease	T	165	1	-	-	-	-	-	-	-	-	-	1	-	1	2	10	22	34	48	45
			M	89	-	-	-	-	-	-	-	-	-	-	1	-	-	1	8	12	23	19	26
			F	76	1	-	-	-	-	-	-	-	-	-	-	-	1	4	2	10	11	29	19
340		Multiple Sclerosis	T	37	-	-	-	-	-	-	1	-	-	1	2	4	5	6	7	4	2	2	1
			M	18	-	-	-	-	-	-	1	-	-	1	1	-	4	2	3	2	1	2	1
			F	19	-	-	-	-	-	-	-	-	-	-	1	4	1	6	4	2	1	-	-
Residual		(323-331, 333-339, 341-389)	T	478	6	6	1	1	4	7	5	7	1	6	6	16	14	15	27	60	81	98	110
			M	235	5	3	1	1	4	4	4	5	1	3	4	9	8	11	14	34	51	48	37
			F	243	1	3	-	-	-	3	1	2	-	3	2	7	6	4	13	26	30	50	73

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	35,070 *	606	102	70	71	296	293	275	329	381	434	573	920	1,399	2,223	3,045	4,139	4,736	5,343	9,833
		M	18,183 **	361	65	43	47	212	211	204	236	242	272	344	565	882	1,415	1,892	2,496	2,617	2,568	3,510
		F	16,886	245	37	27	24	84	82	71	93	139	162	229	355	517	808	1,153	1,643	2,119	2,775	6,323
390-459	VII. DISEASES OF THE CIRCULATORY SYSTEM	T	16,426	17	5	7	7	7	16	19	51	70	131	179	324	515	848	1,280	1,882	2,385	2,863	5,818
		M	8,180	11	4	6	4	5	8	8	35	57	98	134	242	372	623	875	1,168	1,327	1,311	1,892
		F	8,246	6	1	1	3	2	8	11	16	13	33	45	82	143	225	405	714	1,058	1,552	3,926
390-398, 402, 404-429	Diseases of the Heart	T	12,126	15	5	5	4	5	10	16	35	56	110	151	269	432	730	1,045	1,458	1,776	2,077	3,927
		M	6,384	10	4	4	3	3	5	7	27	48	87	123	210	328	548	726	912	1,025	977	1,337
		F	5,742	5	1	1	1	2	5	9	8	8	23	28	59	104	182	319	546	751	1,100	2,590
390-398	Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	T	117	-	-	-	-	-	-	2	1	2	3	3	2	8	13	12	17	16	20	18
		M	38	-	-	-	-	-	-	-	1	2	2	-	1	4	7	5	4	4	4	4
		F	79	-	-	-	-	-	-	2	-	-	1	3	1	4	6	7	13	12	16	14
402, 404	Hypertensive Heart With or Without Renal Disease	T	201	-	-	-	-	-	-	-	1	1	-	1	1	3	11	10	18	36	36	83
		M	70	-	-	-	-	-	-	-	1	1	-	1	-	2	8	8	9	12	14	14
		F	131	-	-	-	-	-	-	-	-	-	-	-	1	1	3	2	9	24	22	69
410-414	Ischemic Heart Disease	T	8,449	-	-	-	-	1	1	6	24	34	83	116	214	319	549	771	1,072	1,304	1,440	2,515
		M	4,695	-	-	-	-	1	1	2	20	32	72	102	177	256	424	552	704	773	690	889
		F	3,754	-	-	-	-	-	-	4	4	2	11	14	37	63	125	219	368	531	750	1,626
410	Acute Myocardial Infarction	T	3,850	-	-	-	-	1	-	2	12	17	38	67	96	171	291	397	552	684	652	870
		M	2,255	-	-	-	-	1	-	-	9	16	31	60	77	132	227	273	367	412	309	341
		F	1,595	-	-	-	-	-	-	2	3	1	7	7	19	39	64	124	185	272	343	529
411	Other Acute and Subacute Forms	T	43	-	-	-	-	-	-	-	-	1	1	-	-	1	3	3	7	6	7	14
		M	28	-	-	-	-	-	-	-	-	-	1	-	-	1	3	3	5	5	4	6
		F	15	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	1	3	8
412	Old Myocardial Infarction	T	22	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	5	6	1	6
		M	17	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	5	5	1	3
		F	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	3
413	Angina Pectoris	T	22	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	5	3	8	2
		M	10	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	5	1
		F	12	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	3	3	3	1
414	Chronic Ischemic Heart Disease	T	4,512	-	-	-	-	-	1	4	12	16	44	49	118	145	251	369	503	605	772	1,623
		M	2,385	-	-	-	-	-	1	2	11	16	40	42	100	122	191	275	325	351	371	538
		F	2,127	-	-	-	-	-	-	2	1	-	4	7	18	23	60	94	178	254	401	1,085
415-416	Pulmonary Heart Disease	T	235	-	1	1	-	-	4	2	4	3	5	5	7	15	15	26	34	38	31	44
		M	109	-	1	1	-	-	1	1	3	1	2	4	6	4	6	14	16	17	12	20
		F	126	-	-	-	-	-	3	1	1	2	3	1	1	11	9	12	18	21	19	24
420-429	Other Forms of Heart Disease	T	3,123	15	4	3	4	4	5	6	5	16	19	26	45	87	142	226	317	382	550	1,267
		M	1,472	10	3	3	3	2	3	4	2	12	11	16	26	62	103	147	179	219	257	410
		F	1,651	5	1	-	1	2	2	2	3	4	8	10	19	25	39	79	138	163	293	857
401, 403	Hypertensive Disease (Without Mention of Heart Disease)	T	194	-	-	-	-	-	-	1	-	-	-	2	5	1	14	17	21	26	34	73
		M	79	-	-	-	-	-	-	-	-	-	-	2	2	1	9	12	14	10	11	18
		F	115	-	-	-	-	-	-	1	-	-	-	-	3	-	5	5	7	16	23	55
430-438	Cerebrovascular Disease	T	3,107	2	2	2	-	1	4	2	13	12	16	23	36	62	71	151	291	426	532	1,401
		M	1,251	1	-	2	-	1	2	1	7	8	8	7	19	31	42	96	158	201	286	421
		F	1,856	1	2	-	-	-	2	1	6	4	8	16	17	31	29	55	133	225	246	980
431	Cerebral Hemorrhage	T	247	-	1	-	-	1	-	1	2	1	4	8	10	14	13	22	34	48	42	46
		M	113	-	-	-	-	1	-	1	-	-	3	4	6	8	11	15	20	19	13	12
		F	134	-	1	-	-	-	-	-	2	1	1	4	4	6	2	7	14	29	29	34
434	Occlusion of Cerebral Arteries	T	376	-	1	-	-	-	2	-	-	2	2	2	2	6	5	24	38	47	60	185
		M	155	-	-	-	-	-	1	-	-	2	-	1	-	2	2	15	24	21	26	61
		F	221	-	1	-	-	-	1	-	-	-	2	1	2	4	3	9	14	26	34	124
440-448	Diseases of the Arteries, Arterioles and Capillaries	T	944	-	-	-	1	1	2	-	3	2	3	2	13	17	32	61	106	147	151	403
		M	441	-	-	-	1	1	1	-	1	1	1	1	10	14	23	36	81	88	74	112
		F	503	-	-	-	-	-	1	-	2	1	2	1	3	3	9	25	25	59	77	291
440	Arteriosclerosis	T	482	-	-	-	-	-	-	-	-	-	-	1	2	4	5	14	27	57	80	292
		M	186	-	-	-	-	-	-	-	-	-	-	1	1	-	4	10	19	32	38	81
		F	296	-	-	-	-	-	-	-	-	-	-	-	1	4	1	4	8	25	42	211
451-459	Diseases of Veins and Lymphatics and Other Diseases of Circulatory System	T	55	-	-	-	2	-	-	-	-	-	2	1	1	3	1	6	6	10	9	14
		M	25	-	-	-	-	-	-	-	-	-	2	1	1	2	1	5	3	3	3	4
		F	30	-	-	-	2	-	-	-	-	-	-	-	-	1	-	1	3	7	6	10

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	35,270 *	606	102	73	71	296	263	275	325	401	434	573	825	1,395	2,253	3,305	4,120	4,736	5,443	9,333
		M	18,183 **	361	65	46	47	212	211	206	236	262	272	344	540	862	1,445	1,932	2,476	2,617	2,668	3,213
		F	16,996	245	37	27	24	84	52	71	91	139	162	229	285	517	808	1,373	1,644	2,119	2,775	6,121
451	Phlebitis and Thrombophlebitis	T	23	-	-	-	-	-	-	-	-	-	1	1	1	2	1	4	3	3	1	4
		M	12	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	2	-	1	1
		F	11	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	3	3	3
460-519	VIII. DISEASES OF THE RESPIRATORY SYSTEM	T	3,026	18	8	4	3	4	3	4	4	11	17	23	29	58	145	231	300	438	553	1,176
		M	1,660	11	5	1	2	3	2	1	3	7	14	12	13	30	86	129	192	261	301	536
		F	1,366	7	3	3	1	1	-	3	1	4	3	11	16	28	59	83	108	177	252	640
466	Acute Bronchitis and Bronchiolitis	T	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	[illegible]	1
		M	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	[illegible]
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1
480-487	Pneumonia and Influenza	T	1,530	10	4	3	1	1	1	2	1	3	3	11	8	12	22	46	67	160	260	840
		M	767	6	2	-	1	1	1	-	2	2	1	7	4	8	20	32	73	98	127	350
		F	763	4	2	3	-	-	-	2	1	1	-	4	1	4	7	14	44	72	133	490
480-486	Pneumonia	T	1,396	10	3	2	1	1	1	2	1	3	1	10	4	10	36	61	86	150	238	757
		M	729	6	2	-	1	1	1	-	2	2	1	6	4	7	30	50	56	90	127	325
		F	667	4	1	2	-	-	-	2	1	1	-	4	1	3	6	11	32	60	111	432
487	Influenza	T	134	-	1	1	-	-	-	-	-	1	-	1	-	2	1	2	7	11	22	83
		M	52	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	5	3	10	30
		F	82	-	1	1	-	-	-	-	-	1	-	-	-	1	1	-	2	7	12	53
490-491	Bronchitis, Chronic and Unspecified	T	58	-	-	-	-	-	-	-	-	-	-	-	-	2	6	4	8	6	11	16
		M	33	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	5	3	8	7
		F	25	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	3	4	3	9
492	Emphysema	T	166	-	-	-	-	-	-	-	-	-	1	-	-	7	21	31	36	30	36	36
		M	116	-	-	-	-	-	-	-	-	-	1	-	-	4	13	19	26	18	23	12
		F	50	-	-	-	-	-	-	-	-	-	-	-	-	3	8	6	10	12	8	9
493	Asthma	T	82	-	-	-	1	2	-	1	-	1	1	3	1	6	7	10	6	12	15	20
		M	31	-	-	-	-	1	-	-	-	-	-	2	-	3	3	5	2	7	4	6
		F	51	-	-	-	1	1	-	1	-	1	1	1	1	3	4	5	4	6	11	14
Residual	(460-465, 467-479, 494-519)	T	1,271	7	4	1	1	1	1	1	1	4	6	9	15	42	82	129	217	225	194	293
		M	798	4	3	1	1	1	1	1	1	2	4	8	9	25	50	79	140	140	129	168
		F	473	3	1	-	-	-	-	-	-	2	2	1	6	17	32	50	77	85	66	125
520-579	IX. DISEASES OF THE DIGESTIVE SYSTEM	T	1,131	11	1	2	1	1	2	4	3	15	20	29	32	64	93	135	136	147	151	264
		M	557	5	1	1	1	1	1	3	2	10	14	16	21	41	52	71	77	75	80	97
		F	574	6	-	1	-	-	1	1	1	5	6	13	11	23	41	64	59	72	71	167
531-533	Ulcer of the Stomach and Duodenum	T	94	-	-	-	-	-	-	-	1	1	-	-	1	1	6	5	3	10	26	29
		M	38	-	-	-	-	-	-	-	-	1	-	-	1	-	6	6	7	5	7	3
		F	56	-	-	-	-	-	-	-	1	-	-	-	-	1	-	4	3	4	19	26
540-543	Appendicitis	T	11	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2	2	2	3
		M	7	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	3
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-
550-553, 560	Hernia and Other Obstruction	T	114	5	1	1	1	-	1	1	-	-	-	1	2	1	-	3	10	16	20	41
		M	45	1	1	-	1	-	1	1	-	-	-	-	1	-	1	1	3	4	9	15
		F	69	4	-	1	-	-	-	-	-	-	-	1	1	1	1	2	7	12	14	26
571	Chronic Liver Disease and Cirrhosis	T	303	-	-	-	-	-	-	1	5	12	12	19	16	32	100	68	36	[illegible]	14	11
		M	180	-	-	-	-	-	-	1	4	7	9	12	12	[illegible]	21	47	20	12	7	5
		F	123	-	-	-	-	-	-	-	1	5	3	7	4	11	27	24	16	11	7	6
574-576	Cholelithiasis and Other Disorders of Gallbladder and Biliary Tract	T	86	-	-	-	-	1	-	-	-	1	1	-	1	4	3	5	7	15	17	31
		M	40	-	-	-	-	1	-	-	-	-	1	-	1	2	3	4	4	9	9	9
		F	46	-	-	-	-	-	-	-	-	1	-	-	-	2	2	1	3	6	8	22
Residual	(520-530, 534-539, 544-549, 554-559, 561-570, 572-573, 577-579)	T	573	6	-	-	-	-	1	2	3	4	5	10	12	20	26	61	70	73	66	172
		M	297	4	-	-	-	-	-	1	2	4	4	6	7	13	17	21	39	41	30	54
		F	276	2	-	-	-	-	1	1	-	-	1	4	5	7	9	20	31	32	36	118

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	35,069 *	606	102	70	71	296	293	275	329	381	438	573	920	1,399	2,223	3,046	4,139	4,736	5,341	9,833
		M	18,183 **	361	65	43	47	212	211	204	236	242	276	344	569	882	1,415	1,892	2,496	2,617	2,566	3,510
		F	16,886	245	37	27	24	84	82	71	93	139	162	229	351	517	808	1,154	1,643	2,119	2,775	6,323
580-629 X.	DISEASES OF THE GENITOURINARY SYSTEM	T	500	-	2	1	-	-	2	1	5	2	1	6	11	3	23	34	39	74	96	202
		M	254	-	1	1	-	-	1	-	4	1	-	2	8	2	14	19	25	40	50	88
		F	246	-	1	-	-	-	1	1	1	1	1	4	3	1	9	15	14	34	46	114
580-589	Nephritis, Nephrotic Syndrome and Nephrosis	T	307	-	1	-	-	-	1	1	4	-	1	3	8	1	16	29	20	57	61	109
		M	167	-	1	-	-	-	1	-	3	-	-	2	6	1	11	17	11	36	29	53
		F	140	-	-	-	-	-	-	1	1	-	1	1	2	-	5	12	9	21	32	56
590	Infections of the Kidney	T	19	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	4	11
		M	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3
		F	13	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	2	8
600	Hyperplasia of the Prostate	T	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	6
		M	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	6
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual	(591-599, 601-629)	T	166	-	-	1	-	-	1	-	1	1	-	1	1	2	5	5	11	25	29	78
		M	72	-	-	1	-	-	-	-	1	1	-	-	-	1	1	4	6	12	17	28
		F	93	-	-	-	-	-	1	-	-	-	-	1	1	1	4	1	5	13	12	50
630-676 XI.	COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	T	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
630-639	Pregnancy with Abortive Outcome	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
640-648	Complications of Pregnancy	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual	(649-676)	T	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
680-709 XII.	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	T	32	-	-	-	-	-	-	-	-	-	-	-	1	-	2	2	4	3	9	11
		M	10	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	2	3
		F	22	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2	2	7	8
710-739 XIII.	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	T	130	2	-	-	1	-	-	-	4	1	-	-	5	5	6	9	13	15	24	45
		M	40	-	-	-	-	-	-	-	2	-	-	-	-	4	2	4	5	4	2	17
		F	90	2	-	-	1	-	-	-	2	1	-	-	5	1	4	5	8	11	22	28
740-759 XIV.	CONGENITAL ANOMALIES	T	239	158	13	4	-	5	4	1	1	6	6	1	5	6	7	5	6	3	4	4
		M	137	98	8	2	-	2	3	-	1	3	5	-	3	3	1	1	2	-	3	2
		F	102	60	5	2	-	3	1	1	-	3	1	1	2	3	6	4	4	3	1	2
760-779 XV.	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD	T	228	227	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	138	137	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	90	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
780-799 XVI.	SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS	T	852	121	5	-	1	5	7	4	2	4	11	10	7	17	35	77	79	93	81	281
		M	419	75	3	-	-	3	6	3	1	2	6	9	6	16	25	42	51	49	28	98
		F	433	46	2	-	1	2	1	1	1	2	5	1	1	1	10	35	28	44	53	183
E800-E999 XVII.	INJURY AND POISONING	T	2,156 *	20	47	36	44	249	220	176	160	147	87	84	81	84	86	83	119	112	127	192
		M	1,496 **	8	32	21	30	183	172	144	125	102	63	63	64	61	61	67	82	71	77	68
		F	660	12	15	15	14	66	48	32	35	45	24	21	17	23	25	16	37	41	50	124
E800-E949	Unintentional Injury—Total	T	1,464 **	16	44	32	36	156	143	104	92	72	51	48	47	48	49	53	88	86	112	186
		M	964 **	6	30	19	23	115	106	87	71	48	40	37	38	32	34	40	59	47	65	66
		F	500	10	14	13	13	41	37	17	21	24	11	11	9	16	15	13	29	39	47	120

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	35,070 *	606	102	70	71	296	293	275	329	381	434	573	920	1,399	2,223	3,045	4,139	4,736	5,343	9,833
		M	18,183 **	361	65	43	47	212	211	204	236	242	272	344	565	882	1,415	1,892	2,496	2,617	2,568	3,510
		F	16,886	245	37	27	24	84	82	71	93	139	162	229	355	517	808	1,153	1,643	2,119	2,775	6,323
E810-E825	Motor Vehicle	T	624	4	12	14	22	117	98	60	51	41	26	27	22	14	20	14	25	19	29	9
		M	432	1	8	7	14	82	71	48	35	26	20	19	15	8	15	10	16	9	20	8
		F	192	3	4	7	8	35	27	12	16	15	6	8	7	6	5	4	9	10	9	1
E880-E888	Falls	T	289	-	1	-	-	2	5	3	2	4	2	3	1	8	5	17	27	32	42	135
		M	134	-	-	-	-	2	3	2	2	3	1	2	1	6	3	13	18	14	23	41
		F	155	-	1	-	-	-	2	1	-	1	1	1	-	2	2	4	9	18	19	94
Residual	Other Unintentional Injury (800-809, 826-949)	T	561 **	12	31	18	14	37	40	41	39	27	23	18	24	26	24	22	36	35	41	42
		M	408 **	5	22	12	9	31	32	37	34	19	19	16	22	18	16	17	25	24	22	17
		F	153	7	9	6	5	6	8	4	5	8	4	2	2	8	8	5	11	11	19	25
E950-E959	Suicide and Self-Inflicted Injury	T	536	-	-	-	7	77	56	55	48	54	30	29	29	31	31	22	27	23	12	5
		M	416	-	-	-	6	56	50	46	37	38	17	20	22	25	23	22	20	22	10	2
		F	120	-	-	-	1	21	6	9	11	16	13	9	7	6	8	-	7	1	2	3
E960-E969	Homicide and Injury Purposely Inflicted by Other Persons	T	112	2	3	4	-	12	14	11	18	15	6	5	4	4	2	5	2	2	2	1
		M	79	1	2	2	-	9	10	6	15	10	6	4	3	3	1	2	2	2	1	-
		F	33	1	1	2	-	3	4	5	3	5	-	1	1	1	1	3	-	-	1	1
E970-E978	Legal Intervention	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E980-E989	Injury Undetermined Whether Unintentionally or Purposely Inflicted	T	44 *	2	-	-	1	4	7	6	2	6	-	2	1	1	4	3	2	1	1	-
		M	36	1	-	-	1	3	6	5	2	6	-	2	1	1	3	3	1	-	1	-
		F	7	1	-	-	-	1	1	1	-	-	-	-	-	-	1	-	1	1	-	-
E990-E999	Injury Resulting from Operations of War	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*Includes unknown age and sex
**Includes unknown age

Table 39
DEATHS DUE TO SELECTED CAUSES BY RACE
MINNESOTA RESIDENTS, 1986

	Total	White	Black	Indian	Other	Unknown
Total - All Causes	35,070	34,335	367	220	137	11
Infective-parasitic	362	348	7	6	1	-
Tuberculosis	9	9	-	-	-	-
Neoplasms - malignant	7,670	7,546	68	24	32	-
Digestive	2,036	2,004	14	5	13	-
Respiratory	1,720	1,679	20	13	8	-
Breast	693	683	5	3	2	-
Genital	954	943	9	-	2	-
Urinary	369	366	2	1	-	-
Leukemia	344	339	2	1	2	-
Diabetes mellitus	611	591	12	7	1	-
Major cardiovascular	16,371	16,165	109	49	45	3
Rheumatic	117	114	1	-	2	-
Hypertensive heart	201	197	4	-	-	-
Ischemic heart	8,449	8,355	40	25	28	1
Other heart	3,123	3,082	20	12	8	1
Hypertension	194	189	4	1	-	-
Cerebrovascular	3,107	3,066	27	8	5	1
Arteriosclerosis	482	480	-	1	1	-
Respiratory	3,026	2,967	29	12	18	-
Pneumonia	1,366	1,335	17	7	7	-
Influenza	134	134	-	-	-	-
Bronchitis	58	58	-	-	-	-
Emphysema	166	165	-	-	1	-
Asthma	82	79	-	-	3	-
Ulcer of stomach & duodenum	94	93	1	-	-	-
Hernia & intestinal obstruction	114	112	-	1	1	-
Chronic liver disease & cirrhosis	303	289	3	9	2	-
Nephritis, nephrotic syndrome & nephrosis	307	295	6	4	2	-
Kidney infections	19	19	-	-	-	-
Pregnancy, childbirth & puerperium	1	1	-	-	-	-
Congenital anomalies	239	224	4	4	7	-
Certain conditions originating in the perinatal period	228	208	12	2	6	-
Ill-defined	852	806	27	16	3	-
Other diseases	2,717	2,667	25	17	8	-
Unintentional Injury	1,464	1,375	30	49	3	7
Motor vehicle	624	592	10	17	3	2
Falls	289	287	-	2	-	-
Suicide	536	511	7	10	8	-
Homicide	112	76	26	10	-	-
Other violent deaths	44	42	1	-	-	1

Table 40

FIFTEEN LEADING CAUSES OF DEATH, DEATH RATES PER 100,000 POPULATION AND PERCENT OF TOTAL DEATHS, MINNESOTA RESIDENTS, 1986

Cause of Death	Number of Deaths	Death Rates	Percent of Total
Heart Disease (390-398, 402, 404-429)	12,126	287.8	34.6
Cancer (Malignant Neoplasms) (140-208)	7,670	182.0	21.9
Cerebrovascular Disease (430-438)	3,107	73.7	8.9
Pneumonia and Influenza (480-487)	1,500	35.6	4.3
Pneumonia (480-486)	(1,366)	(32.4)	(3.9)
Influenza (487)	(134)	(3.2)	(0.4)
Unintentional Injury (800-949)	1,464	34.7	4.2
Motor Vehicle (810-825)	(624)	(14.8)	(1.8)
Falls (880-888)	(289)	(6.9)	(0.8)
Chronic Obstructive Pulmonary Diseases and Allied Conditions (490-496)	1,158	27.5	3.3
Diabetes Mellitus (250)	611	14.5	1.7
Suicide (950-959)	536	12.7	1.5
Arteriosclerosis (440)	482	11.4	1.4
Nephritis, Nephrotic Snydrome, and Nephrosis (580-589)	307	7.3	0.9
Chronic Liver Disease and Cirrhosis (571)	303	7.2	0.9
Congenital Anomalies (740-759)	239	5.7	0.7
Certain Conditions Originating in the Perinatal Period (760-779)	228	5.4	0.7
Septicemia (038)	208	4.9	0.6
Hypertensive Disease Without Mention of Heart Disease (401, 403)	194	4.6	0.6
All Other Causes	4,937	117.2	14.1
Total - All Causes	35,070	832.2	100.0

Table 41
LEADING CAUSES OF DEATH BY SELECTED AGE GROUPS
MINNESOTA RESIDENTS, 1986

	No. of Deaths	Per-cent	Age/Cause Specific Death Rate Per 100,000 Population
1-4 Years			
Total - all causes	102	100.0	36.8
Unintentional injury	44	43.1	15.9
Motor vehicle	(12)	(11.8)	(4.3)
Congenital anomalies	13	12.7	4.7
Diseases of the heart	5	4.9	1.8
Diseases of the nervous system and sense organs	5	4.9	1.8
Symptoms, signs and ill-defined conditions	5	4.9	1.8
5-9 Years			
Total - all causes	70	100.0	23.6
Unintentional injury	32	45.7	10.8
Motor vehicle	(14)	(20.0)	(4.7)
Malignant neoplasms	9	12.9	3.0
Diseases of the heart	5	7.1	1.7
Congenital anomalies	4	5.7	1.3
Homicide	4	5.7	1.3
10-14 Years			
Total - all causes	71	100.0	22.8
Unintentional injury	36	50.7	11.6
Motor vehicle	(22)	(31.0)	(7.1)
Suicide	7	9.9	2.2
Malignant neoplasms	5	7.0	1.6
Diseases of the heart	4	5.6	1.3
Endocrine, nutritional and metabolic diseases and immunity disorders	4	5.6	1.3
15-19 Years			
Total - all causes	296	100.0	83.2
Unintentional injury	156	52.7	43.8
Motor vehicle	(117)	(39.5)	(32.9)
Suicide	77	26.0	21.6
Malignant neoplasms	19	6.4	5.3
Homicide	12	4.1	3.4
Diseases of the heart	5	1.7	1.4
Congenital anomalies	5	1.7	1.4
Symptoms, signs and ill-defined conditions	5	1.7	1.4
20-34 Years			
Total - all causes	897	100.0	79.0
Unintentional injury	339	37.8	29.9
Motor vehicle	(209)	(23.3)	(18.4)
Suicide	159	17.7	14.0
Malignant neoplasms	114	12.7	10.0
Diseases of the heart	61	6.8	5.4
Homicide	43	4.8	3.8
35-49 Years			
Total - all causes	1,388	100.0	195.2
Malignant neoplasms	396	28.5	55.7
Diseases of the heart	317	22.8	44.6
Unintentional injury	171	12.3	24.0
Motor vehicle	(94)	(6.8)	(13.2)
Suicide	113	8.1	15.9
Cerebrovascular disease	51	3.7	7.2
Chronic liver disease and cirrhosis	40	2.9	5.6
50-64 Years			
Total - all causes	4,542	100.0	839.7
Malignant neoplasms	1,757	38.7	324.8
Diseases of the heart	1,431	31.5	264.6
Cerebrovascular disease	169	3.7	31.2
Chronic obstructive pulmonary diseases and allied conditions	158	3.5	29.2
Unintentional injury	144	3.2	26.6
Motor vehicle	(56)	(1.2)	(10.4)
Chronic liver disease	104	2.3	19.2
65-74 Years			
Total - all causes	7,184	100.0	2,494.9
Diseases of the heart	2,503	34.8	869.2
Malignant neoplasms	2,225	31.0	772.7
Cerebrovascular disease	442	6.2	153.5
Chronic obstructive pulmonary diseases and allied conditions	355	4.9	123.3
Diabetes	158	2.2	54.9
Symptoms, signs and ill-defined conditions	156	2.2	54.2
75 Years and Over			
Total - all causes	19,912	100.0	8,606.4
Diseases of the heart	7,780	39.1	3,362.7
Malignant neoplasms	3,139	15.8	1,356.7
Cerebrovascular disease	2,419	12.1	1,045.5
Pneumonia and influenza	1,260	6.3	544.6
Chronic obstructive pulmonary diseases and allied conditions	629	3.2	271.9
Symptoms, signs and ill-defined conditions	465	2.3	201.0

Table 42
ACCIDENT FATALITIES OCCURRING IN MINNESOTA* BY ACCIDENT CATEGORY** AND AGE GROUP***
1985 - 1986

TYPE OF ACCIDENT	1985 TOTAL	1986 TOTAL	1986 AGE GROUP <5	5-14	15-24	25-44	45-64	65+	Unknown Age
TOTAL ACCIDENTAL DEATHS	1,428	1,395	60	64	288	304	177	501	1
OCCUPATIONAL DEATHS	56	41	-	-	10	15	8	8	-
Agriculture	24	17	-	-	4	5	4	4	-
Mining, quarrying, oil and gas wells	-	-	-	-	-	-	-	-	-
Construction	16	8	-	-	2	6	-	-	-
Manufacturing, logging and lumber	7	7	-	-	2	1	1	3	-
Transportation and public utilities	3	4	-	-	-	3	1	-	-
Trade	-	1	-	-	-	-	1	-	-
Service	3	3	-	-	1	-	1	1	-
Government	-	-	-	-	-	-	-	-	-
Other and unspecified industry	3	1	-	-	1	-	-	-	-
HOME DEATHS	257	296	32	19	28	53	34	130	-
Poisonings (except gas)	31	16	-	-	1	11	4	-	-
Poisonings by gases and vapors	17	23	-	3	1	10	2	7	-
Falls	93	112	1	-	1	8	6	96	-
Fires	35	70	16	8	13	12	9	12	-
Drowning	14	10	3	-	4	-	2	1	-
Suffocation, ingested food or object	8	3	-	-	-	1	1	1	-
Suffocation, mechanical	17	13	6	3	-	1	1	2	-
Firearms	14	6	-	1	3	2	-	-	-
Other and unspecified home accidents	28	43	6	4	5	8	9	11	-
MOTOR VEHICLE DEATHS	627	586	14	35	205	164	79	89	-
Injury to pedestrian	70	73	5	9	14	16	7	22	-
Injury to pedal cyclist	10	12	-	7	3	-	2	-	-
Injury to rider of animal or occupant of animal-drawn vehicle	-	-	-	-	-	-	-	-	-
Collision with railroad train	13	13	-	3	4	2	1	3	-
Collision with other motor vehicle	319	248	4	10	78	73	38	45	-
Collision with fixed object	44	25	-	-	10	7	6	2	-
Noncollision	141	171	1	3	82	57	18	10	-
Other and unspecified accidents	30	44	4	3	14	9	7	7	-
PUBLIC NON-MOTOR VEHICLE	334	278	8	10	40	60	39	120	1
Railroad (not with motor vehicle)	9	4	-	-	2	2	-	-	-
Other road vehicle (not with motor vehicle)	3	2	-	-	-	1	1	-	-
Water transportation	21	16	-	1	9	2	2	2	-
Air transportation	19	13	-	-	1	10	2	-	-
Falls	97	88	-	2	4	3	7	72	-
Fires	1	4	-	-	1	1	1	-	1
Drowning	36	53	4	4	11	17	13	4	-
Firearms	5	9	-	1	4	2	1	1	-
Other and unspecified public accidents	143	89	4	2	8	22	12	41	-
ACCIDENT TYPE UNKNOWN	154	194	6	-	5	12	17	154	-

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* Includes only those deaths for which the accident occurred in Minnesota.
** National Safety Council categories.
*** Age group applicable to 1986 only.

Table 43
DEATHS OCCURRING IN MINNESOTA BY CAUSE AND AUTOPSY STATUS
1986

			Autopsy Status					
			Number			Percent		
	Cause of Death	Total Deaths	Performed	Not Performed	Not Stated	Performed	Not Performed	Not Stated
	Total - All Causes	35,245	4,936	25,252	5,057	14.0	71.6	14.3
I.	Infectious and parasitic diseases	381	103	240	38	27.0	63.0	10.0
II.	Neoplasms	7,877	677	6,028	1,172	8.6	76.5	14.9
III.	Endocrine, nutritional, and metabolic diseases and immunity disorders	881	113	653	115	12.8	74.1	13.1
IV.	Diseases of the blood and blood-forming organs	139	24	101	14	17.3	72.7	10.1
V.	Mental disorders	490	43	370	77	8.8	75.5	15.7
VI.	Diseases of the nervous system and sense organs	700	79	509	112	11.3	72.7	16.0
VII.	Diseases of the circulatory system	16,469	1,897	12,067	2,505	11.5	73.3	15.2
VIII.	Diseases of the respiratory system	3,011	281	2,259	471	9.3	75.0	15.6
IX.	Diseases of the digestive system	1,162	275	735	152	23.7	63.3	13.1
X.	Diseases of the genitourinary system	484	49	355	80	10.1	73.3	16.5
XI.	Complications of pregnancy, childbirth, and the puerperium	1	-	1	-	0.0	100.0	0.0
XII.	Diseases of the skin and subcutaneous tissue	32	3	25	4	9.4	78.1	12.5
XIII.	Diseases of the musculoskeletal system and connective tissue	130	18	89	23	13.8	68.5	17.7
XIV.	Congenital anomalies	274	134	123	17	48.9	44.9	6.2
XV.	Certain conditions originating in the perinatal period	236	101	120	15	42.8	50.8	6.4
XVI.	Symptoms, signs and ill-defined conditions	849	167	550	132	19.7	64.8	15.5
XVII.	Injury and poisoning	2,129	972	1,027	130	45.7	48.2	6.1

Table 44
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1986

		State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth
DEATHS - Total		35,070*	164	890	295	288	252	83	420
Rate:	Age & sex adjusted	8.3	7.6	9.8	8.3	8.8	11.7	6.8	8.1
Rate:	Sex adjusted-age specific								
	Under 5 years	2.1	1.0	1.5	3.1	3.7	2.1	0.0	1.5
	5-14 years	0.2	0.5	0.2	0.0	0.2	0.0	0.0	0.3
	15-24 years	0.8	0.0	0.8	1.7	1.5	0.4	0.8	0.6
	25-44 years	1.1	1.0	0.9	1.2	1.7	1.3	0.0	1.0
	45-64 years	7.0	8.8	7.2	5.5	7.9	6.9	4.5	6.6
	65 years and over	52.2	45.3	64.7	52.0	51.7	80.1	47.3	51.4
Sex:	Male	18,183	89	481	162	160	125	46	212
	Female	16,886	75	409	133	128	127	37	208
Race:	White	34,335	162	885	284	244	252	83	416
	Black	367	-	-	-	-	-	-	-
	Indian	220	2	1	11	43	-	-	-
	Other & Unknown	54	-	2	-	-	-	-	4
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	362	-	11	5	1	1	1	1
010-018	Tuberculosis	9	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	7,670	34	242	48	62	46	18	93
150-159	Digestive	2,036	9	62	14	13	18	4	19
160-165	Respiratory	1,720	11	67	11	17	8	2	26
174-175	Breast	693	-	22	4	3	7	2	10
179-187	Genital	954	4	19	8	4	3	2	15
188-189	Urinary	369	3	13	2	9	1	1	5
204-208	Leukemia	344	-	14	-	-	1	3	4
250	Diabetes mellitus	611	2	17	8	2	4	4	5
390-448	Major cardiovascular	16,371	90	384	138	129	136	40	190
390-398	Rheumatic heart	117	-	4	1	1	2	-	-
402,404	Hypertensive heart	201	-	5	1	-	1	-	3
410-414	Ischemic heart	8,449	58	196	69	65	85	25	110
420-429	Other heart	3,123	8	80	19	31	17	9	21
400-401, & 403	Hypertension	194	2	3	-	-	-	-	4
430-438	Cerebrovascular	3,107	13	61	34	23	26	5	37
440	Arteriosclerosis	482	6	16	7	5	2	-	8
460-519	Respiratory	3,026	15	63	29	23	23	3	56
480-486	Pneumonia	1,366	7	28	18	11	14	2	20
487	Influenza	134	1	2	-	2	1	-	9
490-491	Bronchitis	58	1	-	1	-	-	-	2
492	Emphysema	166	1	3	1	1	1	-	3
493	Asthma	82	-	2	-	-	-	-	3
531-533	Ulcer of stomach and duodenum	94	-	2	-	1	2	2	-
550-553, & 560	Hernia & intestinal obstruction	114	-	1	1	2	1	1	1
571	Chronic liver disease and cirrhosis	303	1	12	1	3	-	-	7
580-589	Nephritis, nephrotic syndrome & nephrosis	307	1	2	3	4	2	3	1
590	Kidney infection	19	-	-	-	1	-	-	-
630-676	Pregnancy, childbirth & puerperium	1	-	-	-	-	-	-	-
740-759	Congenital anomalies	239	1	6	2	1	1	-	5
560-779	Perinatal conditions	228	-	11	2	1	1	-	3
780-799	Ill-defined	852	1	12	10	5	3	-	6
Residual	Other diseases	2,717	12	53	26	18	22	7	26
E800-949	Unintentional injury	1,464	5	44	20	24	7	3	13
E810-825	Motor vehicle	624	2	25	7	15	6	-	6
E880-888	Falls	289	-	2	2	4	-	3	3
E950-959	Suicide & self-inflicted injury	536	2	26	1	6	2	-	9
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	112	-	3	1	5	-	-	1
E980-999	Other violent deaths	44	-	2	-	-	1	1	3

Table 44
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA 1986 (CONT.)

		Brown	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clear-water
DEATHS - Total		247	297	254	307	169	244	394	106
Rate:	Age & sex adjusted	6.6	8.6	8.6	10.0	8.4	8.5	8.7	8.4
Rate:	Sex adjusted-age specific								
	Under 5 years	2.3	4.0	1.8	3.1	0.8	2.8	2.9	1.4
	5-14 years	0.0	0.7	0.1	0.3	0.9	0.4	0.0	0.0
	15-24 years	0.4	0.6	1.3	2.4	1.4	0.4	0.4	0.7
	25-44 years	0.5	0.7	1.1	1.8	0.5	0.6	1.7	0.4
	45-64 years	5.5	8.8	3.7	10.1	5.8	10.6	8.2	6.4
	65 years and over	43.0	51.6	58.4	56.7	55.1	49.4	52.7	56.4
Sex:	Male	135	176	154	188	80	129	201	53
	Female	112	121	100	119	89	115	193	53
Race:	White	247	284	254	287	169	241	392	100
	Black	-	-	-	-	-	-	-	-
	Indian	-	12	-	20	-	-	1	6
	Other & Unknown	-	1	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	5	-	2	5	3	3	4	-
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	57	59	47	70	33	60	83	22
150-159	Digestive	22	12	10	22	11	21	23	3
160-165	Respiratory	9	18	9	22	5	15	16	6
174-175	Breast	6	3	3	7	6	4	6	2
179-187	Genital	6	8	9	7	3	6	12	5
188-189	Urinary	1	4	1	3	1	4	3	1
204-208	Leukemia	2	1	5	1	1	1	7	-
250	Diabetes mellitus	7	4	6	6	2	1	6	1
390-448	Major cardiovascular	122	153	122	137	86	118	195	60
390-398	Rheumatic heart	-	3	1	2	-	-	3	1
402,404	Hypertensive heart	-	1	1	-	3	3	2	-
410-414	Ischemic heart	65	79	68	62	46	50	76	34
420-429	Other heart	24	24	19	29	16	25	56	7
400-401, & 403	Hypertension	1	-	1	5	-	1	1	-
430-438	Cerebrovascular	20	27	23	29	17	31	36	15
440	Arteriosclerosis	8	15	3	6	1	4	13	2
460-519	Respiratory	21	35	21	23	22	13	36	11
480-486	Pneumonia	6	14	11	8	7	5	17	6
487	Influenza	1	1	-	2	10	-	1	-
490-491	Bronchitis	2	-	-	-	1	1	1	-
492	Emphysema	2	8	-	-	1	-	1	1
493	Asthma	-	-	-	-	-	2	-	-
531-533	Ulcer of stomach and duodenum	1	-	-	-	1	1	-	1
550-553, & 560	Hernia & intestinal obstruction	1	-	1	1	-	2	1	-
571	Chronic liver disease and cirrhosis	3	1	2	6	-	4	1	1
580-589	Nephritis, nephrotic syndrome & nephrosis	6	1	-	3	-	4	4	1
590	Kidney infection	-	-	-	-	-	-	1	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	2	2	1	-	3	4	-
760-779	Perinatal conditions	2	2	3	1	-	-	5	1
780-799	Ill-defined	1	1	7	9	-	2	4	-
Residual	Other diseases	16	26	13	21	15	21	23	4
E800-949	Unintentional injury	4	11	23	17	5	11	19	2
E810-825	Motor vehicle	2	3	12	10	3	3	7	-
E880-888	Falls	-	1	4	-	1	2	6	-
E950-959	Suicide & self-inflicted injury	1	2	5	4	2	-	7	2
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	3	-	1	-	-
E980-999	Other violent deaths	-	-	-	-	-	-	1	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Cook	Cotton-wood	Crow Wing	Dakota	Dodge	Douglas	Faribault	Fill-more
DEATHS - Total		58	165	467	1,052	130	293	205	291
Rate:	Age & sex adjusted	11.4	7.7	7.9	8.6	8.2	7.5	7.1	9.1
Rate:	Sex adjusted-age specific								
	Under 5 years	0.0	3.4	1.4	1.6	2.0	2.0	1.3	4.4
	5-14 years	1.6	0.6	0.0	0.1	0.7	0.5	0.0	0.3
	15-24 years	3.6	0.5	0.9	0.6	0.0	0.8	0.0	1.6
	25-44 years	1.6	0.6	1.7	0.9	0.9	1.1	0.7	0.8
	45-64 years	10.4	4.7	6.7	6.0	8.3	5.8	4.9	7.1
	65 years and over	67.1	50.6	48.3	57.1	50.7	47.2	47.8	56.0
Sex:	Male	33	86	234	552	66	155	93	161
	Female	25	79	233	500	64	138	112	130
Race:	White	53	165	465	1,040	130	292	205	291
	Black	-	-	1	3	-	-	-	-
	Indian	3	-	1	-	-	-	-	-
	Other & Unknown	2	-	-	2	-	1	-	-
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	2	2	14	7	1	2	4	-
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	13	32	89	259	35	60	52	66
150-159	Digestive	6	7	20	65	8	19	16	22
160-165	Respiratory	1	4	22	58	3	9	11	13
174-175	Breast	2	3	3	31	3	3	8	3
179-187	Genital	2	6	19	23	6	6	4	-
188-189	Urinary	-	3	4	15	2	5	4	5
204-208	Leukemia	1	4	2	9	2	5	1	3
250	Diabetes mellitus	1	1	5	21	7	4	2	2
390-448	Major cardiovascular	18	88	236	436	50	150	96	150
390-398	Rheumatic heart	1	-	-	2	1	1	1	-
402,404	Hypertensive heart	-	3	2	7	-	-	2	-
410-414	Ischemic heart	7	49	118	222	15	70	53	99
420-429	Other heart	5	20	58	77	15	41	21	19
400-401, & 403	Hypertension	-	1	1	11	-	-	1	1
430-438	Cerebrovascular	5	12	45	83	11	31	18	18
440	Arteriosclerosis	-	2	4	14	3	2	-	10
460-519	Respiratory	3	16	41	91	6	27	19	32
480-486	Pneumonia	1	8	15	29	1	18	11	12
487	Influenza	1	3	-	2	-	-	3	2
490-491	Bronchitis	-	1	-	3	-	-	-	2
492	Emphysema	-	-	1	7	1	-	2	1
493	Asthma	-	-	2	5	1	-	-	-
531-533	Ulcer of stomach and duodenum	-	1	1	1	-	2	1	-
550-553, & 560	Hernia & intestinal obstruction	-	-	3	5	-	3	1	-
571	Chronic liver disease and cirrhosis	-	-	4	7	-	5	3	1
580-589	Nephritis, nephrotic syndrome & nephrosis	-	2	1	9	-	1	5	3
590	Kidney infection	2	-	-	1	2	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	1	1	2	12	1	-	-	-
760-779	Perinatal conditions	-	2	1	14	1	3	1	4
780-799	Ill-defined	3	2	9	37	9	5	1	7
Residual	Other diseases	6	14	29	78	8	16	13	13
E800-949	Unintentional injury	7	4	21	44	8	13	5	11
E810-825	Motor vehicle	5	1	6	27	6	6	4	7
E880-888	Falls	-	1	3	7	1	1	1	2
E950-959	Suicide & self-inflicted injury	1	-	11	25	1	1	2	2
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	3	-	1	-	-
E980-999	Other violent deaths	-	-	-	2	1	-	-	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Freeborn	Goodhue	Grant	Hennepin	Minn-eapolis	Houston	Hubbard
DEATHS - Total		338	436	89	7,838	3,916	161	165
Rate:	Age & sex adjusted	7.6	9.2	7.4	8.5	9.2	6.9	8.1
Rate:	Sex adjusted-age specific							
	Under 5 years	1.5	2.8	3.4	2.5	4.0	0.7	1.0
	5-14 years	0.2	0.0	0.9	0.3	0.5	0.7	0.0
	15-24 years	1.1	1.9	0.0	0.6	0.6	0.3	0.5
	25-44 years	0.8	0.7	0.0	1.3	1.8	1.0	2.2
	45-64 years	5.3	7.1	7.2	7.4	10.1	5.2	5.6
	65 years and over	49.7	58.6	46.6	52.0	51.9	44.6	51.3
Sex:	Male	184	207	51	3,812	1,911	92	93
	Female	154	229	38	4,026	2,005	69	72
Race:	White	337	432	89	7,489	3,611	160	164
	Black	-	-	-	237	217	1	-
	Indian	-	3	-	61	60	-	1
	Other & Unknown	1	-	-	18	28	-	-
ICDA**	CAUSE OF DEATH							
001-139	Infective-parastic	2	2	-	99	51	4	1
010-018	Tuberculosis	-	1	-	2	2	-	-
140-208	Neoplasms-malignant	68	96	20	1,784	821	42	34
150-159	Digestive	13	27	4	440	193	15	9
160-165	Respiratory	13	15	4	427	209	10	5
174-175	Breast	6	13	1	180	80	1	1
179-187	Genital	8	12	2	224	102	4	8
188-189	Urinary	3	5	1	70	38	4	4
204-208	Leukemia	5	4	1	81	32	2	1
250	Diabetes mellitus	3	8	1	161	78	1	3
390-448	Major cardiovascular	179	207	51	3,360	1,637	73	67
390-398	Rheumatic heart	4	-	-	33	21	-	2
402,404	Hypertensive heart	7	3	1	57	22	1	1
410-414	Ischemic heart	91	86	21	1,746	829	35	34
420-429	Other heart	37	37	11	549	306	17	11
400-401, & 403	Hypertension	2	1	-	69	40	-	2
430-438	Cerebrovascular	27	59	13	682	304	14	11
440	Arteriosclerosis	6	14	-	73	38	2	2
460-519	Respiratory	32	37	1	700	376	13	21
480-486	Pneumonia	12	19	1	317	179	9	16
487	Influenza	1	2	-	12	2	-	1
490-491	Bronchitis	2	-	-	13	9	1	-
492	Emphysema	2	8	-	49	22	1	-
493	Asthma	-	1	-	12	3	-	1
531-533	Ulcer of stomach and duodenum	2	-	1	18	15	-	-
550-553, & 560	Hernia & intestinal obstruction	1	-	-	17	9	1	-
571	Chronic liver disease and cirrhosis	3	2	-	76	40	-	4
580-589	Nephritis, nephrotic syndrome & nephrosis	6	8	-	65	43	2	4
590	Kidney infection	-	-	-	-	-	1	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	1	-	-	-
740-759	Congenital anomalies	-	5	-	67	27	2	1
760-779	Perinatal conditions	1	4	-	51	29	1	-
780-799	Ill-defined	2	5	-	207	146	1	9
Residual	Other diseases	22	43	8	696	362	15	10
E800-949	Unintentional Injury	10	14	7	324	162	3	7
E810-825	Motor vehicle	6	8	4	96	33	1	1
E880-888	Falls	2	3	-	106	61	-	2
E950-959	Suicide & self-inflicted injury	6	5	-	152	75	2	4
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	1	-	-	54	43	-	-
E980-999	Other violent deaths	-	-	-	6	2	-	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.

		Isanti	Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Koochi-iching
DEATHS - Total		190	408	144	106	355	96	139
Rate:	Age & sex adjusted	9.0	8.3	8.6	7.6	8.1	9.9	7.3
Rate:	Sex adjusted-age specific							
	Under 5 years	2.1	1.4	3.2	1.7	2.7	1.8	1.6
	5-14 years	0.0	0.1	0.0	0.5	0.2	0.0	0.0
	15-24 years	1.0	1.6	0.5	0.5	0.4	0.0	0.4
	25-44 years	0.6	1.1	0.5	0.9	1.3	1.8	1.2
	45-64 years	7.2	7.2	5.5	7.8	6.4	7.9	6.7
	65 years and over	58.6	50.9	58.0	45.8	50.8	61.3	42.6
Sex:	Male	89	232	77	62	182	54	79
	Female	101	176	67	44	173	42	60
Race:	White	189	396	144	106	354	96	138
	Black	-	-	-	-	-	-	-
	Indian	-	12	-	-	-	-	-
	Other & Unknown	1	-	-	-	1	-	1
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	-	8	3	2	1	1	-
010-018	Tuberculosis	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	34	98	31	20	60	18	36
150-159	Digestive	13	22	10	5	16	6	10
160-165	Respiratory	6	26	4	4	12	4	13
174-175	Breast	1	3	5	2	7	1	-
179-187	Genital	3	14	4	4	8	-	1
188-189	Urinary	2	6	1	-	3	1	1
204-208	Leukemia	1	2	2	2	2	1	1
250	Diabetes mellitus	2	3	4	1	4	1	2
390-448	Major cardiovascular	104	176	60	47	174	42	79
390-398	Rheumatic heart	-	1	-	-	3	1	-
402,404	Hypertensive heart	-	-	2	-	-	-	-
410-414	Ischemic heart	38	99	29	19	87	23	52
420-429	Other heart	25	22	8	11	40	10	16
400-401, & 403	Hypertension	2	-	1	1	1	-	-
430-438	Cerebrovascular	31	34	12	11	34	6	5
440	Arteriosclerosis	5	9	4	3	5	2	1
460-519	Respiratory	5	43	16	13	31	18	5
480-486	Pneumonia	2	22	9	3	20	11	2
487	Influenza	-	5	-	1	3	6	-
490-491	Bronchitis	1	-	-	-	2	-	-
492	Emphysema	1	-	-	-	-	-	-
493	Asthma	-	1	-	-	3	-	-
531-533	Ulcer of stomach and duodenum	1	4	-	1	-	-	-
550-553, & 560	Hernia & intestinal obstruction	-	-	1	1	1	-	-
571	Chronic liver disease and cirrhosis	-	2	2	1	4	-	2
580-589	Nephritis, nephrotic syndrome & nephrosis	2	1	1	1	3	3	-
590	Kidney infection	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	3	2	2	2	-	1
760-779	Perinatal conditions	3	2	-	-	4	1	-
780-799	Ill-defined	8	8	8	2	14	1	1
Residual	Other diseases	18	37	14	8	36	3	7
E800-949	Unintentional Injury	10	16	2	2	16	7	3
E810-825	Motor vehicle	6	3	-	2	4	3	-
E880-888	Falls	3	5	-	-	5	-	-
E950-959	Suicide & self-inflicted injury	1	7	-	3	5	1	3
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	-	-	-	-
E980-999	Other violent deaths	-	-	-	2	-	-	-

Table 44
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.

		Lac Qui Parle	Lake	Lake of the Woods	Le-Sueur	Lin-coln	Lyon	Mc-Leod	Mahnomen	Mar-shall
DEATHS - Total		137	111	44	226	84	232	280	61	151
Rate:	Age & sex adjusted	9.0	8.3	8.1	7.5	6.9	8.0	8.0	8.2	8.9
Rate:	Sex adjusted-age specific									
	Under 5 years	6.0	2.5	0.0	1.4	3.8	0.8	1.4	0.0	1.9
	5-14 years	0.0	0.0	0.0	0.5	0.8	0.5	0.2	0.0	0.5
	15-24 years	0.6	1.5	0.0	1.7	0.9	0.4	0.4	0.0	0.0
	25-44 years	0.9	0.0	2.0	0.6	1.9	1.2	1.2	1.6	1.6
	45-64 years	5.7	5.5	5.1	4.7	1.9	9.9	6.0	4.9	6.1
	65 years and over	58.1	55.3	54.0	48.9	43.9	46.6	51.4	55.7	58.2
Sex:	Male	79	56	23	124	41	114	150	36	89
	Female	58	55	21	102	43	118	130	25	62
Race:	White	137•	110	44	226	84	232	280	51	150
	Black	-	-	-	-	-	-	-	-	-
	Indian	-	-	-	-	-	-	-	10	-
	Other & Unknown	-	-	-	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH									
001-139	Infective-parasitic	3	2	1	2	2	-	1	-	2
010-018	Tuberculosis	-	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	27	21	12	41	16	54	41	6	26
150-159	Digestive	10	6	3	11	5	15	13	3	5
160-165	Respiratory	5	6	1	9	2	13	8	1	4
174-175	Breast	1	1	-	5	1	8	7	1	1
179-187	Genital	5	-	3	8	5	9	6	-	5
188-189	Urinary	-	1	-	4	-	-	3	1	4
204-208	Leukemia	1	2	1	1	-	5	-	-	1
250	Diabetes mellitus	2	1	-	6	3	2	5	1	1
390-448	Major cardiovascular	62	47	15	129	39	118	166	38	84
390-398	Rheumatic heart	1	-	-	1	-	-	-	-	-
402,404	Hypertensive heart	-	-	-	2	-	1	1	-	1
410-414	Ischemic heart	36	23	7	76	22	72	89	24	36
420-429	Other heart	10	6	3	24	8	21	27	7	29
400-401, & 403	Hypertension	-	-	1	2	-	1	1	1	-
430-438	Cerebrovascular	12	14	4	18	9	19	35	2	14
440	Arteriosclerosis	2	2	-	3	-	1	7	1	2
460-519	Respiratory	17	12	7	14	7	15	22	3	13
480-486	Pneumonia	9	8	3	4	3	7	12	1	5
487	Influenza	5	-	-	2	1	1	-	-	1
490-491	Bronchitis	-	-	-	-	-	-	-	-	1
492	Emphysema	-	1	-	1	-	-	-	-	1
493	Asthma	2	-	1	-	-	-	2	-	1
531-533	Ulcer of stomach and duodenum	-	2	-	1	1	-	1	-	-
550-553, & 560	Hernia & intestinal obstruction	-	-	-	-	1	1	1	-	-
571	Chronic liver disease and cirrhosis	1	3	1	1	1	5	-	2	2
580-589	Nephritis, nephrotic syndrome & nephrosis	2	-	2	4	-	3	-	1	6
590	Kidney infection	-	-	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	-	-	1	1	1	1	-	-
760-779	Perinatal conditions	1	1	-	1	-	-	1	-	-
780-799	Ill-defined	4	2	-	5	-	3	4	4	1
Residual	Other diseases	6	13	4	12	7	17	22	4	7
E800-949	Unintentional Injury	8	6	1	7	6	13	13	2	7
E810-825	Motor vehicle	-	[illegible]	1	3	1	5	9	-	-
E880-888	Falls	2	2	-	-	-	2	2	-	4
E950-959	Suicide & self-inflicted injury	2	-	1	2	-	-	1	-	2
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	-	-	-	1	-	-
E980-999	Other violent deaths	-	1	-	-	-	-	-	-	-

Table 44
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Martin	Meeker	Mille Lacs	Morrison	Mower	Murray	Nicollet
DEATHS - Total		271	210	196	258	417	119	220
Rate:	Age & sex adjusted	8.3	8.1	7.8	7.3	7.5	8.1	9.2
Rate:	Sex adjusted-age specific							
	Under 5 years	0.0	1.0	3.1	2.1	1.0	2.3	1.3
	5-14 years	0.0	0.0	0.0	0.4	0.2	0.6	0.7
	15-24 years	0.6	1.2	2.0	2.0	1.2	0.6	0.2
	25-44 years	1.9	0.8	0.9	0.8	1.1	1.9	2.0
	45-64 years	6.9	6.7	8.0	6.3	6.7	5.3	7.2
	65 years and over	51.9	51.9	44.5	43.8	46.4	50.5	58.0
Sex:	Male	119	98	110	129	214	67	117
	Female	152	112	86	129	203	52	103
Race:	White	270	210	192	257	417	119	218
	Black	-	-	-	-	-	-	1
	Indian	-	-	4	1	-	-	-
	Other & Unknown	1	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	1	5	1	2	1	-	4
010-018	Tuberculosis	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	57	39	47	43	105	21	55
150-159	Digestive	18	13	13	13	32	7	17
160-165	Respiratory	14	4	16	5	31	4	6
174-175	Breast	6	4	1	1	6	3	11
179-187	Genital	6	7	2	6	11	1	9
188-189	Urinary	3	3	2	3	1	1	-
204-208	Leukemia	2	1	3	3	6	2	4
250	Diabetes mellitus	11	7	-	4	6	1	2
390-448	Major cardiovascular	135	117	90	138	173	77	99
390-398	Rheumatic heart	-	1	1	1	1	-	1
402,404	Hypertensive heart	3	-	1	1	1	4	1
410-414	Ischemic heart	74	55	60	61	101	38	51
420-429	Other heart	19	20	9	33	36	14	18
400-401, & 403	Hypertension	2	3	1	1	-	-	-
430-438	Cerebrovascular	23	25	17	33	28	18	21
440	Arteriosclerosis	5	5	-	-	3	1	2
460-519	Respiratory	28	9	19	13	34	6	16
480-486	Pneumonia	13	4	11	8	15	6	7
487	Influenza	1	1	1	-	-	-	2
490-491	Bronchitis	-	-	1	-	2	-	-
492	Emphysema	1	-	-	1	1	-	-
493	Asthma	-	1	-	-	5	-	2
531-533	Ulcer of stomach and duodenum	-	1	1	-	2	1	-
550-553, & 560	Hernia & intestinal obstruction	2	-	-	1	2	2	1
571	Chronic liver disease and cirrhosis	4	2	2	5	4	-	1
580-589	Nephritis, nephrotic syndrome & nephrosis	2	1	2	3	2	-	1
590	Kidney infection	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	2	-	1	2	1	-
760-779	Perinatal conditions	-	1	3	2	1	-	-
780-799	Ill-defined	-	2	1	1	31	-	4
Residual	Other diseases	18	11	18	20	32	3	20
E800-949	Unintentional Injury	9	9	10	21	9	7	11
E810-825	Motor vehicle	5	3	8	11	6	5	5
E880-888	Falls	1	1	1	3	1	-	3
E950-959	Suicide & self-inflicted injury	2	4	2	4	9	-	4
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	-	3	-	-
E980-999	Other violent deaths	-	-	-	-	1	-	2

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Nobles	Norman	Olmsted	Otter Tail	Penn-ington	Pine	Pipe-stone	Polk
DEATHS - Total		204	130	580	639	172	224	137	390
Rate:	Age & sex adjusted	7.1	9.7	7.2	8.6	10.0	8.6	8.2	8.9
Rate:	Sex adjusted-age specific								
	Under 5 years	1.2	2.7	1.6	1.6	0.9	2.4	1.2	3.2
	5-14 years	0.3	0.0	0.3	0.2	1.0	0.3	0.0	0.2
	15-24 years	0.9	0.0	0.3	1.0	0.8	0.6	1.8	1.4
	25-44 years	1.2	2.5	0.9	1.2	2.7	1.2	0.4	1.3
	45-64 years	3.2	8.5	5.0	6.0	6.7	9.1	6.7	8.0
	65 years and over	47.4	58.6	47.7	55.7	61.7	51.2	52.9	53.2
Sex:	Male	118	71	279	373	96	128	76	230
	Female	86	59	301	266	76	96	61	160
Race:	White	202	130	567	638	171	221	137	387
	Black	-	-	6	-	-	-	-	-
	Indian	-	-	-	1	-	3	-	1
	Other & Unknown	-	-	1	-	1	-	-	2
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	1	1	7	2	-	1	-	3
010-018	Tuberculosis	-	-	-	-	-	-	-	1
140-208	Neoplasms-malignant	34	22	135	134	28	46	28	91
150-159	Digestive	8	7	32	33	7	15	3	18
160-165	Respiratory	5	3	30	22	6	9	6	20
174-175	Breast	3	2	15	13	2	5	2	7
179-187	Genital	2	2	21	21	1	5	5	17
188-189	Urinary	4	1	7	7	-	2	2	7
204-208	Leukemia	2	5	9	6	2	2	2	5
250	Diabetes mellitus	3	4	17	8	5	5	3	4
390-448	Major cardiovascular	104	76	255	342	95	112	71	198
390-398	Rheumatic heart	1	-	4	1	-	-	-	-
402,404	Hypertensive heart	-	-	4	3	-	1	-	1
410-414	Ischemic heart	61	41	155	183	49	53	33	109
420-429	Other heart	10	11	26	74	12	35	11	35
400-401, & 403	Hypertension	-	1	2	5	1	1	-	2
430-438	Cerebrovascular	25	19	44	50	27	20	17	29
440	Arteriosclerosis	2	3	5	13	2	-	6	9
460-519	Respiratory	26	6	43	64	12	17	16	32
480-486	Pneumonia	9	2	16	32	3	8	10	10
487	Influenza	-	2	1	2	-	2	-	2
490-491	Bronchitis	-	-	1	-	1	1	-	-
492	Emphysema	2	-	3	2	1	1	-	2
493	Asthma	2	1	2	2	1	-	-	1
531-533	Ulcer of stomach and duodenum	1	-	3	-	1	-	1	1
550-553, & 560	Hernia & intestinal obstruction	-	-	3	1	1	2	1	3
571	Chronic liver disease and cirrhosis	2	1	6	1	1	-	1	2
580-589	Nephritis, nephrotic syndrome & nephrosis	-	3	4	6	-	3	-	5
590	Kidney infection	1	-	1	1	-	1	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	1	-	5	1	-	1	-	1
760-779	Perinatal conditions	-	1	5	2	-	1	-	1
780-799	Ill-defined	5	-	5	8	6	8	8	4
Residual	Other diseases	15	11	50	39	14	13	3	31
E800-949	Unintentional Injury	8	2	32	27	8	11	4	11
E810-825	Motor vehicle	5	1	12	13	4	4	3	4
E880-888	Falls	1	-	8	3	-	2	1	-
E950-959	Suicide & self-inflicted injury	3	3	7	2	-	1	1	1
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	1	1	1	-	-	2
E980-999	Other violent deaths	-	-	1	-	-	2	-	-

Table 44

SELECTED MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Pope	Ramsey	St. Paul	Red Lake	Redwood	Renville	Rice	Rock
DEATHS - Total		157	3,977	2,732	74	227	209	371	93
Rate:	Age & sex adjusted	6.8	8.5	8.6	11.0	8.4	7.6	8.2	6.8
Rate:	Sex adjusted-age specific								
	Under 5 years	0.0	2.8	3.3	2.6	2.8	1.3	1.1	0.0
	5-14 years	0.0	0.2	0.2	1.1	0.0	0.3	0.5	0.0
	15-24 years	0.0	0.8	0.8	3.8	0.7	0.4	0.9	0.0
	25-44 years	0.7	1.3	1.4	0.0	0.7	1.1	0.6	1.6
	45-64 years	5.5	7.8	9.3	14.5	5.4	5.8	6.7	7.3
	65 years and over	62.2	51.4	49.5	59.8	56.0	49.0	52.8	41.1
Sex:	Male	82	1,923	1,310	45	111	124	174	50
	Female	75	2,054	1,422	29	116	85	197	43
Race:	White	157	3,822	2,597	73	226	208	370	93
	Black	-	113	103	-	-	-	-	-
	Indian	-	12	8	-	-	-	-	-
	Other & Unknown	-	6	24	-	-	1	-	-
ICDA***	CAUSE OF DEATH								
001-139	Infective-parasitic	1	41	29	-	-	3	6	1
010-018	Tuberculosis	-	2	2	-	-	-	-	-
140-208	Neoplasms-malignant	34	900	588	11	39	41	79	20
150-159	Digestive	4	232	145	5	11	14	21	4
160-165	Respiratory	13	219	149	3	6	5	20	3
174-175	Breast	2	83	52	-	1	1	10	3
179-187	Genital	6	109	81	1	6	9	13	3
188-189	Urinary	3	41	23	2	2	3	4	2
204-208	Leukemia	-	34	21	-	1	2	-	-
250	Diabetes mellitus	2	71	55	1	2	3	8	1
390-448	Major cardiovascular	76	1,774	1,228	34	138	106	198	56
390-398	Rheumatic heart	-	11	9	-	-	1	-	-
402,404	Hypertensive heart	-	26	18	2	-	-	-	-
410-414	Ischemic heart	47	944	651	20	59	60	95	34
420-429	Other heart	14	297	199	8	27	18	51	3
400-401, & 403	Hypertension	1	16	13	1	2	-	5	1
430-438	Cerebrovascular	12	331	233	1	36	25	33	12
440	Arteriosclerosis	-	51	25	1	8	1	6	2
460-519	Respiratory	21	331	248	8	19	23	28	3
480-486	Pneumonia	13	154	111	2	8	9	10	1
487	Influenza	2	6	6	1	-	1	-	-
490-491	Bronchitis	-	2	2	1	-	-	4	-
492	Emphysema	-	18	16	1	3	-	3	-
493	Asthma	1	7	6	-	-	1	-	1
531-533	Ulcer of stomach and duodenum	-	12	8	1	2	-	-	1
550-553, & 560	Hernia & intestinal obstruction	1	15	10	-	1	-	-	-
571	Chronic liver disease and cirrhosis	-	34	27	1	-	2	2	-
580-589	Nephritis, nephrotic syndrome & nephrosis	3	26	20	2	-	1	3	1
590	Kidney infection	1	2	1	1	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	35	20	1	-	-	3	-
760-779	Perinatal conditions	-	37	25	-	2	-	1	-
780-799	Ill-defined	8	128	88	1	3	1	3	-
Residual	Other diseases	6	339	231	8	10	14	18	7
E800-949	Unintentional Injury	4	136	86	5	11	11	15	2
E810-825	Motor vehicle	-	56	33	4	5	5	8	1
E880-888	Falls	1	25	18	-	2	1	7	-
E950-959	Suicide & self-inflicted injury	-	74	51	-	-	3	7	1
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	16	12	-	-	1	-	-
E980-999	Other violent deaths	-	6	5	-	-	-	-	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Roseau	St. Louis	Duluth	Scott	Sherburne	Sibley	Stearns
DEATHS - Total		133	2,245	1,147	257	255	162	636
Rate:	Age & sex adjusted	8.2	9.0	10.3	8.7	10.6	8.2	6.2
Rate:	Sex adjusted-age specific							
	Under 5 years	3.3	1.5	2.4	1.6	1.4	1.5	1.7
	5-14 years	0.8	0.3	0.4	0.0	0.0	0.4	0.1
	15-24 years	1.9	0.8	0.9	1.0	1.0	1.9	0.7
	25-44 years	1.3	1.4	1.9	0.6	1.6	0.5	0.8
	45-64 years	8.0	8.5	9.8	5.1	8.0	5.0	6.0
	65 years and over	46.2	55.0	61.3	59.1	67.5	51.2	37.6
Sex:	Male	78	1,186	565	139	142	91	378
	Female	55	1,059	582	118	113	71	258
Race:	White	133	2,234	1,143	256	254	162	634
	Black	-	2	2	-	-	-	1
	Indian	-	8	1	-	-	-	-
	Other & Unknown	-	-	1	-	-	-	-
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	-	21	12	1	3	1	9
010-018	Tuberculosis	-	1	1	-	-	-	1
140-208	Neoplasms-malignant	26	492	242	57	43	34	147
150-159	Digestive	6	154	74	13	11	8	38
160-165	Respiratory	7	112	58	13	6	6	30
174-175	Breast	1	34	16	4	3	5	17
179-187	Genital	1	54	30	5	6	3	23
188-189	Urinary	2	19	8	5	2	2	4
204-208	Leukemia	3	24	10	4	1	1	5
250	Diabetes mellitus	1	41	20	5	5	2	11
390-448	Major cardiovascular	59	1,062	534	113	119	71	284
390-398	Rheumatic heart	-	7	5	-	1	-	1
402,404	Hypertensive heart	-	27	13	-	1	-	5
410-414	Ischemic heart	25	468	227	71	47	34	157
420-429	Other heart	23	282	140	15	31	22	47
400-401, & 403	Hypertension	-	13	6	3	1	-	2
430-438	Cerebrovascular	8	197	105	21	26	10	47
440	Arteriosclerosis	-	23	13	1	5	2	14
460-519	Respiratory	16	192	103	19	19	15	46
480-486	Pneumonia	6	83	52	10	6	12	18
487	Influenza	2	8	1	-	-	-	2
490-491	Bronchitis	-	6	3	-	-	-	1
492	Emphysema	1	16	7	-	2	-	1
493	Asthma	1	2	1	1	1	-	1
531-533	Ulcer of stomach and duodenum	2	6	3	-	1	-	-
550-553, & 560	Hernia & intestinal obstruction	1	8	4	1	2	-	3
571	Chronic liver disease and cirrhosis	1	24	7	4	5	-	8
580-589	Nephritis, nephrotic syndrome & nephrosis	3	21	8	2	2	-	11
590	Kidney infection	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	11	8	2	4	3	9
760-779	Perinatal conditions	-	7	4	2	1	-	6
780-799	Ill-defined	2	80	55	6	6	17	7
Residual	Other diseases	10	170	90	22	22	5	47
E800-949	Unintentional Injury	9	65	31	19	19	11	31
E810-825	Motor vehicle	5	27	8	9	15	5	7
E880-888	Falls	-	11	5	5	2	3	3
E950-959	Suicide & self-inflicted injury	1	34	20	4	4	1	12
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	5	2	-	-	-	3
E980-999	Other violent deaths	-	6	4	-	-	2	2

Table 44
SELECTED MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.

		Steele	Stevens	Swift	Todd	Traverse	Wabasha	Wadena
DEATHS - Total		252	109	156	218	70	192	192
Rate:	Age & sex adjusted	7.5	7.9	8.4	7.0	8.2	7.2	10.3
Rate:	Sex adjusted-age specific							
	Under 5 years	0.7	2.4	0.0	1.6	2.8	1.2	2.7
	5-14 years	0.0	0.0	0.0	0.5	0.0	0.7	0.4
	15-24 years	1.0	0.0	0.0	0.7	0.0	2.6	2.6
	25-44 years	0.8	0.0	1.8	0.7	0.0	1.0	0.9
	45-64 years	5.5	5.2	7.2	6.5	4.4	3.3	10.2
	65 years and over	49.5	54.6	53.4	42.7	58.5	45.6	60.7
Sex:	Male	148	51	82	131	32	118	89
	Female	104	58	74	87	38	74	103
Race:	White	251	109	156	218	69	191	190
	Black	-	-	-	-	-	1	-
	Indian	-	-	-	-	1	-	-
	Other & Unknown	1	-	-	-	-	-	2
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	6	1	2	2	-	1	2
010-018	Tuberculosis	1	-	-	-	-	-	-
140-208	Neoplasms-malignant	43	13	26	54	18	32	38
150-159	Digestive	8	4	4	13	5	10	11
160-165	Respiratory	7	5	9	12	1	4	10
174-175	Breast	6	1	3	3	2	3	4
179-187	Genital	5	-	1	7	3	7	2
188-189	Urinary	-	2	-	4	1	2	3
204-208	Leukemia	-	1	2	3	2	-	1
250	Diabetes mellitus	3	4	1	4	1	1	3
390-448	Major cardiovascular	132	61	86	93	38	93	96
390-398	Rheumatic heart	3	-	1	1	-	1	1
402,404	Hypertensive heart	-	-	-	-	-	-	-
410-414	Ischemic heart	69	32	38	50	24	44	55
420-429	Other heart	21	14	31	18	6	21	18
400-401, & 403	Hypertension	-	1	1	2	-	-	-
430-438	Cerebrovascular	25	13	11	18	6	21	16
440	Arteriosclerosis	5	-	2	2	-	-	4
460-519	Respiratory	19	14	11	16	4	22	24
480-486	Pneumonia	9	7	3	3	1	10	15
487	Influenza	-	1	-	2	-	5	-
490-491	Bronchitis	-	-	-	-	-	-	-
492	Emphysema	2	-	-	3	-	1	-
493	Asthma	-	-	1	-	-	2	1
531-533	Ulcer of stomach and duodenum	1	-	-	-	-	1	-
550-553, & 560	Hernia & intestinal obstruction	-	-	1	1	-	-	-
571	Chronic liver disease and cirrhosis	1	1	-	3	-	-	2
580-589	Nephritis, nephrotic syndrome & nephrosis	2	-	2	1	1	1	1
590	Kidney infection	-	-	-	-	1	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	1	-	-	-	-	1	2
760-779	Perinatal conditions	-	2	-	1	-	1	2
780-799	Ill-defined	2	6	6	16	2	1	2
Residual	Other diseases	20	6	15	15	4	21	11
E800-949	Unintentional Injury	15	-	5	9	1	15	8
E810-825	Motor vehicle	5	-	3	4	-	10	3
E880-888	Falls	3	-	-	1	1	2	2
E950-959	Suicide & self-inflicted injury	7	1	1	3	-	1	-
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	-	-	-	1
E980-999	Other violent deaths	-	-	-	-	-	1	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Waseca	Wash-ington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine	Unknown
DEATHS - Total		193	621	142	67	392	464	172	5
Rate:	Age & sex adjusted	9.0	9.1	8.4	6.5	7.9	8.6	8.4	0.0
Rate:	Sex adjusted-age specific								
	Under 5 years	1.1	1.9	2.1	1.5	3.1	1.0	0.0	0.0
	5-14 years	0.0	0.1	0.6	0.0	0.0	0.4	0.0	0.0
	15-24 years	1.0	0.4	0.6	0.0	0.8	1.1	1.0	0.0
	25-44 years	1.5	1.0	1.0	0.5	0.6	1.0	0.7	0.0
	45-64 years	5.1	6.1	8.2	6.2	6.4	6.8	6.5	0.0
	65 years and over	59.8	60.6	50.8	41.7	50.1	55.1	56.1	0.0
Sex:	Male	105	312	84	36	205	250	91	4
	Female	88	309	58	31	187	214	81	-
Race:	White	193	618	141	67	391	462	169	3
	Black	-	-	-	-	-	-	1	-
	Indian	-	-	-	-	-	-	2	-
	Other & Unknown	-	1	-	-	-	2	-	2
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	1	11	2	-	3	4	-	-
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	58	164	30	15	81	88	37	-
150-159	Digestive	19	38	5	1	32	30	12	-
160-165	Respiratory	12	37	9	1	9	16	9	-
174-175	Breast	3	10	1	3	8	7	7	-
179-187	Genital	5	18	7	3	9	9	5	-
188-189	Urinary	2	8	-	1	1	5	1	-
204-208	Leukemia	4	6	3	-	4	3	1	-
250	Diabetes mellitus	4	10	4	-	3	3	4	-
390-448	Major cardiovascular	87	270	72	39	192	205	94	-
390-398	Rheumatic heart	1	3	1	-	1	-	-	-
402,404	Hypertensive heart	-	2	1	-	3	2	1	-
410-414	Ischemic heart	44	137	43	20	91	98	53	-
420-429	Other heart	17	57	10	8	53	59	19	-
400-401, & 403	Hypertension	2	4	-	-	1	1	-	-
430-438	Cerebrovascular	17	45	11	8	30	31	14	-
440	Arteriosclerosis	1	9	2	2	4	3	3	-
460-519	Respiratory	10	40	16	5	35	41	13	1
480-486	Pneumonia	3	13	8	3	13	19	8	1
487	Influenza	-	2	-	-	1	2	3	-
490-491	Bronchitis	-	1	-	-	1	1	-	-
492	Emphysema	-	2	-	-	-	-	-	-
493	Asthma	-	3	-	-	2	1	-	-
531-533	Ulcer of stomach and duodenum	1	1	-	1	1	2	-	-
550-553, & 560	Hernia & intestinal obstruction	1	2	1	1	2	2	2	-
571	Chronic liver disease and cirrhosis	1	3	-	-	2	1	2	-
580-589	Nephritis, nephrotic syndrome & nephrosis	2	5	-	1	4	7	3	-
590	Kidney infection	-	1	-	-	-	1	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	7	-	-	2	1	-	-
760-779	Perinatal conditions	1	9	1	-	6	3	-	-
780-799	Ill-defined	1	19	-	-	3	25	1	-
Residual	Other diseases	13	47	10	2	40	37	11	-
E800-949	Unintentional Injury	7	23	3	2	14	34	4	2
E810-825	Motor vehicle	6	8	1	1	4	20	1	1
E880-888	Falls	1	4	-	-	2	5	1	-
E950-959	Suicide & self-inflicted injury	4	8	3	1	4	8	1	1
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	2	1	-	-	-	1	-	-
E980-999	Other violent deaths	-	-	-	-	-	1	-	1

* As of the 1980 Census

+ Includes unknown sex

** For detailed causes see Table 40

Marriage

Table 45
MARRIAGES REPORTED IN MINNESOTA BY STATE OF RESIDENCE
1986

State of Residence	Marriages Reported		Percent of Marriages Reported	
	Residence of Bride	Residence of Groom	Residence of Bride	Residence of Groom
Total	34,199	34,199	100.0	100.0
Minnesota*	31,926	30,709	93.4	89.8
Other Areas and Unknown	2,273	3,490	6.6	10.2
Iowa	142	226	0.4	0.7
North Dakota	318	423	0.9	1.2
South Dakota	95	151	0.3	0.4
Wisconsin	362	486	1.1	1.4
Other States	1,285	2,092	3.8	6.1
U.S. Territories	-	2	-	0.0
Other Nations	71	110	0.2	0.3
Unknown	-	-	-	-

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* The resident totals are not true resident totals for Minnesota. Information is not available at the present time on the number of Minnesotans who marry in other States.

Table 46
MARRIAGES, DIVORCES, AND ANNULMENTS BY COUNTY OF OCCURRENCE
MINNESOTA, 1986

County	Marriages	Divorces	Annulments
State Total	34,199	14,407	19
Aitkin	73	36	-
Anoka	1,489	942	-
Becker	230	91	-
Beltrami	316	144	-
Benton	60	58	-
Big Stone	43	9	-
Blue Earth	501	157	-
Brown	216	50	-
Carlton	219	116	-
Carver	292	145	-
Cass	92	69	-
Chippewa	88	37	-
Chisago	193	69	-
Clay	478	156	-
Clearwater	55	27	-
Cook	28	13	-
Cottonwood	96	40	-
Crow Wing	355	185	-
Dakota	932	782	2
Dodge	79	46	-
Douglas	203	91	-
Faribault	74	39	-
Fillmore	93	50	-
Freeborn	273	123	1
Goodhue	280	119	-
Grant	39	12	-
Hennepin	11,093	3,995	6
Houston	143	53	-
Hubbard	100	39	-
Isanti	182	55	-
Itasca	285	172	1
Jackson	61	36	-
Kanabec	83	37	-
Kandiyohi	330	104	-
Kittson	29	15	-
Koochiching	106	42	-
Lac Qui Parle	55	26	-
Lake	74	44	-
Lake of the Woods	33	13	-
Le Sueur	90	61	1
Lincoln	48	14	-
Lyon	224	67	-
McLeod	243	103	-
Mahnomen	38	9	-
Marshall	51	17	-

Table 46
MARRIAGES, DIVORCES, AND ANNULMENTS BY COUNTY OF OCCURRENCE
MINNESOTA, 1986 (CONT.)

County	Marriages	Divorces	Annulments
Martin	163	78	-
Meeker	126	27	-
Mille Lacs	142	51	-
Morrison	227	87	1
Mower	261	112	-
Murray	45	11	-
Nicollet	127	23	-
Nobles	147	54	-
Norman	51	19	-
Olmsted	987	336	-
Otter Tail	263	131	-
Pennington	112	53	-
Pine	142	51	-
Pipestone	83	21	-
Polk	264	37	-
Pope	53	18	-
Ramsey	4,361	1,917	5
Red Lake	28	6	-
Redwood	102	35	-
Renville	80	24	-
Rice	318	149	1
Rock	79	17	-
Roseau	127	35	-
St. Louis	1,414	833	-
Scott	527	209	-
Sherburne	178	104	-
Sibley	74	32	-
Stearns	1,090	243	-
Steele	221	91	-
Stevens	65	25	-
Swift	50	20	-
Todd	123	65	-
Traverse	27	1	-
Wabasha	84	32	-
Wadena	170	31	-
Waseca	124	60	-
Washington	771	495	1
Watonwan	68	39	-
Wilkin	51	15	-
Winona	352	118	-
Wright	405	169	-
Yellow Medicine	52	25	-
Unknown	-	-	-

Table 47
MARRIAGES OCCURRING IN MINNESOTA BY RACE OF BRIDE AND GROOM, 1986

	GROOM								
BRIDE	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	OTHER* ASIAN	OTHER	UNKNOWN
TOTAL	34,199	29,537	740	220	33	14	190	20	3,445
WHITE	29,475	28,815	246	112	14	11	67	14	196
BLACK	525	48	461	2	–	–	–	–	14
INDIAN	209	102	3	101	–	–	–	–	3
CHINESE	34	15	–	–	16	–	–	–	3
JAPANESE	21	17	1	–	1	2	–	–	–
OTHER ASIAN*	195	70	3	1	1	–	114	–	6
OTHER	40	30	1	–	–	–	2	6	1
UNKNOWN	3,700	440	25	4	1	1	7	–	3,222

* Includes Pacific Islanders

Table 48
MARRIAGES OCCURRING IN MINNESOTA
BY AGE OF BRIDE AND GROOM, 1986

		Groom's Age													
Bride's Age	Total	Under 18	18-19	20	21-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Un-known*
Total	34,199	26	1,003	1,374	9,930	10,155	4,979	2,790	1,434	817	513	372	278	517	11
Under 18	294	12	120	47	87	21	4	3	-	-	-	-	-	-	-
18-19	2,896	8	589	550	1,321	352	59	9	2	4	1	-	-	1	-
20	2,408	2	161	368	1,373	424	66	11	2	1	-	-	-	-	-
21-24	11,365	2	97	346	5,813	3,994	839	195	52	13	6	6	1	-	1
25-29	8,536	1	24	49	1,109	4,258	2,053	745	210	64	11	7	1	2	2
30-34	3,951	-	6	5	174	885	1,384	946	351	123	56	14	6	1	-
35-39	2,098	-	1	3	30	182	459	661	430	203	82	32	10	4	1
40-44	989	-	2	3	10	25	84	162	287	215	121	43	28	9	-
45-49	598	-	-	1	3	7	23	45	86	142	138	94	37	22	-
50-54	313	-	1	-	3	1	6	7	12	39	70	83	61	30	-
55-59	201	-	-	-	1	1	1	2	1	5	18	63	53	56	-
60-64	199	-	-	-	-	-	1	2	-	4	7	20	61	104	-
65+	329	1	2	2	-	1	-	-	-	3	2	10	20	287	1
Unknown*	22	-	-	-	6	4	-	2	1	1	1	-	-	1	6

* Includes age specified as legal

Divorce

DISSOLUTIONS AND ANNULMENTS IN MINNESOTA

The seven tables which follow depict selected characteristics of Minnesota's population which experienced divorce in 1986. Interpretation of these data should be carefully executed due to the large amount of missing data in some tables. These data are missing due to the recent changes and full implementation (1985) of marriage dissolution reporting in Minnesota.

Table 49 shows age of wife versus age of husband for dissolutions and annulments occurring in 1986. Twenty-three percent of all divorces occurred to women aged 25-29. Twenty percent of all divorces also occurred to men aged 25-29. The 30-34 age group of husbands accounted for the greatest percentage of total divorces (21.2%).

Table 51 indicates educational attainment levels of divorce subjects. The husbands' highest level of education was high school in 21 percent, whereas 28 percent of all wives involved in divorce completed high school. Some post high school education was evident in approximately 21 percent of all divorces for both men and women. Graduate level education was more prevalent for husbands.

Tables 52 and 53 indicate custody arrangement for children of couples who divorced in 1986. These tables should be used cautiously since numerous records were omitted from the custody arrangement analyses due to inconsistencies within records or missing data elements. The following criteria were used to omit records:

1. Of the 14,426 divorce records, 3,734 records contain only indexing information. These were rejected since all other data elements were blank.

2. Four thousand four hundred fifty-five records of the remaining 10,692 were rejected because there was no mention of children residing in the household.

3. Of the 6,237 cases for which children were indicated, only 4,865 contained custody information.

4. Ten of those 4,865 cases were omitted because the number of children at time of separation was unknown.

Judicial decision about placement of children by family size is depicted in Table 52. All children were awarded to the wife in 77 percent of all divorce cases for which custody was known, while husbands were awarded custody of all children in nine percent of all cases.

The total number of children affected by divorce in Minnesota--after omitting records by the previously described methods--was 8,640. Custody arrangements for those children are indicated in Table 53.

Please note that differentiation must be made between Table 52 and Table 53 in that Table 52 pertains to cases with children and Table 53 depicts total number of children affected.

Table 54 indicates average monthly amounts of child support awarded by family size. On a per child basis, support awards decreased as family size increased with the exception of those cases in which seven children were involved. Because of the small numbers of cases with five or more children, caution is advised in interpreting the data.

Approximately 46 percent of all divorces in 1986 occurred for marriages in which both partners had not been previously married. Table 55 indicates number of prior marriages for husbands and wives. Nearly half of all divorces in 1986 occurred for marriages of less than ten years duration as indicated in Table 56.

Table 49
DISSOLUTIONS AND ANNULMENTS BY AGE OF WIFE VERSUS AGE OF HUSBAND
MINNESOTA OCCURRENCE, 1986

	Husband's Age											
Wife's Age	Total	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Unknown
Total	14,426	27	1,144	2,909	3,065	2,428	1,773	1,120	618	392	230	207	513
15-19	155	13	105	27	5	1	2	-	-	-	1	-	1
20-24	2,072	10	836	943	224	38	11	3	3	-	-	1	3
25-29	3,250	2	168	1,605	1,091	263	84	23	4	-	-	-	10
30-34	2,868	1	23	260	1,401	876	188	67	26	14	1	1	10
35-39	2,248	-	5	52	277	1,041	628	146	58	22	11	3	5
40-44	1,578	-	-	7	44	156	736	456	112	42	18	5	2
45-49	783	1	-	5	6	32	99	357	187	64	23	5	4
50-54	402	-	-	-	4	4	15	49	176	116	24	11	3
55-59	240	-	1	-	-	3	2	8	38	102	64	22	-
60-64	139	-	-	-	-	1	1	2	5	23	64	43	-
65 & Over	152	-	-	-	1	-	-	2	5	8	22	112	2
Unknown	539	-	6	10	12	13	7	7	4	1	2	4	473

Table 50
DISSOLUTIONS AND ANNULMENTS BY RACE OF WIFE VERSUS RACE OF HUSBAND
MINNESOTA OCCURRENCE, 1986

	Husband's Race									
Wife's Race	Total	White	Black	Indian	Chinese	Japanese	Filipino	Other Asian*	Non-White	Unknown
Total	14,426	7,622	292	71	4	1	12	50	3	6,371
White	7,674	7,479	79	28	-	-	2	16	2	68
Black	219	9	203	-	-	-	1	1	1	4
Indian	90	40	2	41	-	-	-	-	-	7
Chinese	6	1	-	-	4	-	-	1	-	-
Japanese	3	3	-	-	-	-	-	-	-	-
Filipino	19	8	-	-	-	1	8	1	-	1
Other Asian*	51	18	-	-	-	-	-	31	-	2
Other Non-White	1	1	-	-	-	-	-	-	-	-
Unknown	6,363	63	8	2	-	-	1	-	-	6,289

* Includes Pacific Islanders

Table 51

DISSOLUTIONS AND ANNULMENTS BY EDUCATIONAL ATTAINMENT OF WIFE VERSUS EDUCATIONAL ATTAINMENT OF HUSBAND MINNESOTA OCCURRENCE, 1986

	Husband's Educational Attainment					
Wife's Educational Attainment	Total	Less Than 12 Years	High School Graduate	1-4 Years of College	5+ Years of College	Unknown
Total	14,426	940	3,653	2,475	586	6,772
Less Than 12 Years	713	236	361	55	1	60
High School Graduate	4,022	534	2,498	751	74	165
1-4 Years College	2,685	114	665	1,391	321	194
5+ Years College	363	4	38	137	168	16
Unknown	6,643	52	91	141	22	6,337

Table 52
NUMBER OF CHILDREN IN FAMILY BY CUSTODY AWARD
MINNESOTA DISSOLUTIONS AND ANNULMENTS, 1986

	Number of Dissolution Cases					
Number of Children in Family	All Children Awarded to Wife	All Children Awarded to Husband	Children's Custody Shared	All Children Awarded to Non-Parental Party	Custody of Children Split*	Total Cases
1	1,623	194	239	6	-	2,062
2	1,562	180	199	3	85	2,029
3	443	45	54	2	52	596
4	85	11	8	2	16	122
5	22	3	4	1	5	35
6	5	1	1	-	1	8
7	3	-	-	-	-	3
Total	3,743	434	505	14	159	4,855
Percent of Total	77.1%	8.9%	10.4%	0.3%	3.3%	100.0%

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* More than one party is awarded custody of one or more children in a multiple child family.

Table 53

NUMBER OF CHILDREN IN FAMILY VERSUS TOTAL NUMBER OF CHILDREN WHOSE CUSTODY WAS AWARDED TO WIFE, HUSBAND, BOTH OR NON-PARENTAL PARTY

MINNESOTA DISSOLUTIONS AND ANNULMENTS, 1986

	Number of Children Awarded				
Number of Children in Family	Number Awarded To Wife	Number Awarded To Husband	Number In Shared Custody	Number Awarded to Non-Parental Party	Total Number of Children
1	1,623	194	239	6	2,062
2	3,209	438	403	8	4,058
3	1,411	204	165	8	1,788
4	377	70	32	9	488
5	122	28	20	5	175
6	33	9	6	-	48
7	21	-	-	-	21
Total	6,796	943	865	36	8,640
Percent of Total	78.7%	10.9%	10.0%	0.4%	100.0%

Table 54
AVERAGE MONTHLY AMOUNT OF CHILD SUPPORT AWARDED* BY NUMBER OF CHILDREN, MINNESOTA DISSOLUTIONS AND ANNULMENTS, 1986

Number of Children	Number of Cases	Average Total Support Awarded	Average Support Awarded Per Child
1	1,393	$282	$282
2	1,468	$374	$187
3	413	$435	$145
4	80	$524	$131
5	21	$657	$ 82
6	5	$449	$ 75
7	3	$875	$125

The average amount of monthly child support awarded per child (6044 total children) was $195.00.

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* Based on 3,383 cases in which the amount of child support is known.

Table 55

DISSOLUTIONS AND ANNULMENTS BY NUMBER OF THIS MARRIAGE FOR WIFE VERSUS NUMBER OF THIS MARRIAGE FOR HUSBAND

MINNESOTA OCCURRENCE, 1986

Wife's Number This Marriage	Husband's Number This Marriage							
	Total	First	Second	Third	Fourth	Fifth	Sixth or Greater	Unknown
Total	14,426	7,430	1,808	317	55	14	7	4,795
First	7,563	6,640	742	94	16	3	2	66
Second	1,774	684	855	153	23	8	-	51
Third	297	67	150	56	8	2	5	9
Fourth	53	7	28	11	2	1	-	4
Fifth	16	4	8	1	3	-	-	-
Sixth or Greater	1	1	-	-	-	-	-	-
Unknown	4,722	27	25	2	3	-	-	4,665

Table 56
DISSOLUTIONS AND ANNULMENTS BY DURATION OF MARRIAGE
MINNESOTA OCCURRENCE, 1986

Years Married	Number of Dissolutions	Percent of Total
Less than 1	272	1.9
1-4	3,552	24.6
5-9	2,970	20.6
10-14	1,507	10.4
15-19	1,018	7.1
20-24	652	4.5
25-29	357	2.5
30-34	161	1.1
35-39	82	0.6
40 or more	65	0.5
Unknown Duration	3,790	26.3
TOTAL	14,426	100.0

Occupational Illness and Injury

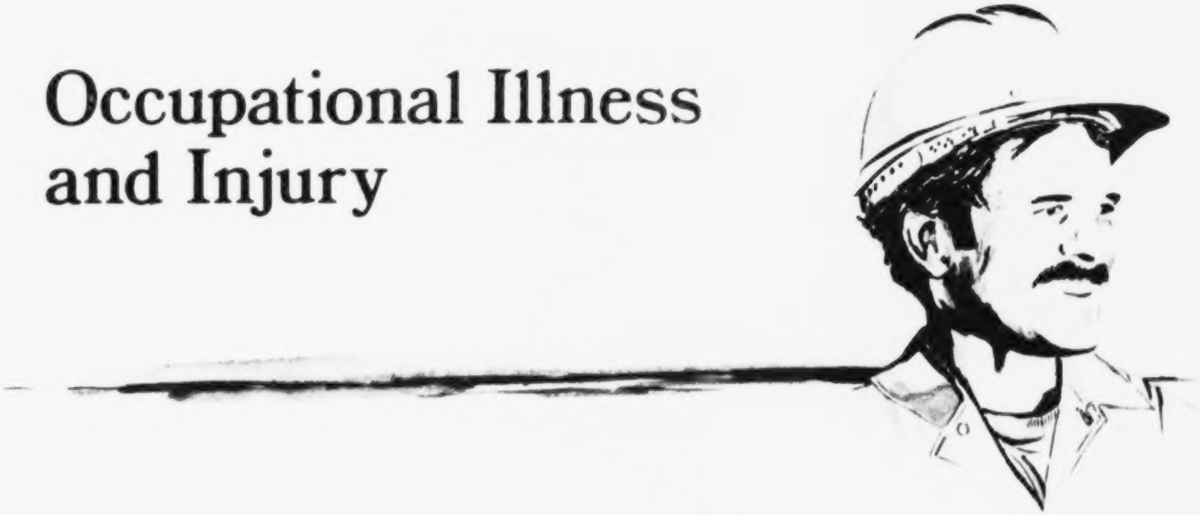

Table 57
NUMBER OF INJURIES AND ILLNESSES BY MAJOR INDUSTRIAL CATEGORY MINNESOTA, 1985 AND 1986

Industrial Category	Number of Injuries and Illnesses 1985	Percent of Total	1986	Percent of Total	Percent Change 1985-1986
Private Sector					
1. Agriculture, Forestry and Fisheries	830	1.7	746	1.6	-10.1
2. Mining	228	0.5	197	0.4	-13.6
3. Construction	4,577	9.5	5,174	11.1	+13.0
4. Manufacturing	14,919	31.1	13,864	29.7	- 7.1
5. Transportation and Public Utilities	3,781	7.9	3,440	7.4	- 9.0
6. Wholesale and Retail Trades	9,774	220.3	9,446	20.2	- 3.4
7. Finance, Insurance and Real Estate	723	1.5	833	1.8	+15.2
8. Services	8,375	17.4	8,513	18.2	+ 1.6
9. Public Sector*	4,822	10.0	4,490	9.6	- 6.9
Nonclassified Industries	8	0.0	13	0.0	0.0
Total	48,037	100.0	46,716	100.0	- 2.7

* Industrial categories are not differentiated. Includes all government and public adminstration data; regardless of industrial category.

Table 58

ANNUAL AVERAGE EMPLOYMENT, PERCENT OF TOTAL EMPLOYMENT AND RATE OF OCCUPATIONAL INJURIES AND ILLNESSES PER 1,000 WORKERS BY INDUSTRIAL CATEGORY*, MINNESOTA 1985 AND 1986

Industrial Category	1985	1986
Mining		
Annual Average Employment	8,336	6,541
Percent	0.4	0.3
Rate of Injuries Per 1,000 Workers	27.4	30.1
Construction		
Annual Average Employment	71,310	74,560
Percent	3.8	3.9
Rate of Injuries Per 1,000 Workers	64.2	69.4
Manufacturing		
Annual Average Employment	375,279	369,022
Percent	20.1	19.5
Rate of Injuries Per 1,000 Workers	39.8	37.6
Transportation and Public Utilities		
Annual Average Employment	98,353	97,504
Percent	5.3	5.2
Rate of Injuries Per 1,000 Workers	38.4	35.3
Wholesale and Retail Trades		
Annual Average Employment	465,605	470,432
Percent	25.0	24.9
Rate of Injuries Per 1,000 Workers	21.0	20.1
Finance, Insurance and Real Estate		
Annual Average Employment	110,297	116,268
Percent	5.9	6.1
Rate of Injuries Per 1,000 Workers	6.6	7.2
Services		
Annual Average Employment	434,407	447,778
Percent	23.3	23.7
Rate of Injuries Per 1,000 Workers	19.3	19.0
Public Administration and Government		
Annual Average Employment	301,185	309,054
Percent	16.2	16.3
Rate of Injuries Per 1,000 Workers	16.0	14.5
Total - Average Annual Employment	1,864,772	1,891,159
Total - Rate of Injuries Per 1,000 Workers	25.3	24.3

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* Occupational injury and illness rates were calculated by dividing the number of injuries for an industrial category by the average annual employment and are reported as rate per 1,000 workers. Data pertaining to the agricultural industry was suppressed due to the unreliability of the occupation estimates available at the time of publication.

Table 59

NUMBER OF INJURIES AND ILLNESSES BY MAJOR OCCUPATIONAL CATEGORY MINNESOTA, 1985 AND 1986

Occupational Category	Number of Injuries and Illnesses 1985	Percent of Total	1986	Percent of Total	Percent Change 1985-1986
1. Professional and Technical	2,395	5.0	2,122	4.5	-11.4
2. Managers and Administrators	2,187	4.6	2,126	4.6	- 2.8
3. Sales Workers	969	2.0	893	1.9	- 7.8
4. Clerical Workers	2,814	5.9	2,794	6.0	- 0.7
5. Crafts Workers	8,535	17.8	8,846	18.9	+ 3.6
6. Operatives	13,027	27.1	11,991	25.7	- 8.0
7. Laborers	7,006	14.6	6,960	14.9	- 0.7
8. Farmers and Farm Laborers	376	0.8	321	0.7	-14.6
9. Service Workers	9,458	19.7	9,516	20.4	+ 0.6
Not Reported	1,270	2.6	1,147	2.5	- 9.7
Total	48,037	100.0	46,716	100.0	- 2.7

Table 60

NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES
BY TYPE OF ACCIDENT
MINNESOTA, 1985 AND 1986

Type of Accident	Number of Injuries and Illnesses 1985	Percent of Total	1986	Percent of Total	Percent Change 1985-1986
Struck Against or By Object	8,599	17.9	8,501	18.2	- 0.1
Fall	7,485	15.6	6,959	14.9	- 7.0
Caught In, Under or Between Objects	1,844	3.8	1,711	3.7	- 7.2
Abraded	1,063	2.2	995	2.1	- 6.4
Motion	2,937	6.1	2,749	5.9	- 6.4
Over Exertion	16,138	33.6	15,636	33.5	- 3.1
Contact with Electricity	67	0.1	83	0.2	+23.9
Contact with Extreme Temperature	864	1.8	791	1.7	- 8.4
Contact with Radiation Toxics or Caustics	1,067	2.2	1,054	2.3	- 1.2
Public Transportation	11	0.0	5	0.0	-54.5
Motor Vehicle Accidents	1,157	2.4	1,086	2.3	- 6.1
Exposure to Noise	80	0.2	49	0.1	-38.8
Explosion	70	0.1	68	0.1	- 2.9
Non-Highway Motor Vehicle Accidents	229	0.5	239	0.5	+ 4.4
Accidents, N.E.C.	569	1.2	604	1.3	+ 6.2
Unclassified Data	5,857	12.2	6,186	13.2	+ 5.6
Total	48,037	100.0	46,716	100.0	- 2.7

Table 61
NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY NATURE OF INJURY
MINNESOTA, 1985 AND 1986

	Number of Injuries and Illnesses				Percent Change
Nature of Injury	1985	Percent of Total	1986	Percent of Total	1985-1986
Amputation	91	0.2	96	0.2	+ 5.5
Laceration	5,439	11.3	5,159	11.0	- 5.1
Contusion	3,737	7.8	3,249	7.0	-13.1
Abrasion	661	1.4	697	1.5	+ 5.4
Heat Burn	885	1.8	837	1.8	- 5.4
Chemical Burn	397	0.8	336	0.7	-15.4
Concussion	128	0.3	94	0.2	-26.6
Fracture	3,205	6.7	2,806	6.0	-12.4
Dislocation	1,386	2.9	1,378	2.9	- 0.6
Sprain	22,163	46.1	20,537	44.0	- 7.3
Hernia	981	2.0	909	1.9	- 7.3
Asphyxia	6	0.0	2	0.0	-66.7
Barometric Effects	1	0.0	3	0.0	+200.0
Frostbite, Freezing	26	0.1	10	0.0	-61.5
Heat Stroke	4	0.0	15	0.0	+275.0
Electric Shock	38	0.1	49	0.1	+28.9
Hearing Loss	97	0.2	71	0.2	-26.8
Infective Diseases	66	0.1	151	0.3	+128.8
Respiratory Diseases	70	0.1	75	0.2	+ 7.1
Pneumoconiosis	12	0.0	7	0.0	-41.7
Poisoning	309	0.6	269	0.6	-12.9
Mental Diseases	136	0.3	126	0.3	- 7.4
Nervous System Diseases	719	1.5	733	1.6	+ 1.9
Neoplasm	6	0.0	4	0.0	-33.3
Radiation Effects	31	0.1	31	0.1	0.0
Dermatitis	289	0.6	273	0.6	- 5.5
Circulatory System	162	0.3	118	0.3	-27.2
Heart Conditions (Includes Heart Attack)	225	0.5	266	0.6	+18.2
Eye Diseases	27	0.1	38	0.1	+40.7
Inflammation of Joints	1,232	2.6	1,156	2.5	- 6.2
Hemorrhoids	16	0.0	16	0.0	0.0
Multiple Injuries	1,216	2.5	1,744	3.7	+43.4
Unclassified	4,276	8.9	5,461	11.7	+27.7
Total	48,037	100.0	46,716	100.0	- 2.7

Table 62

NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY PART OF BODY INJURED

MINNESOTA, 1985 AND 1986

Part of Body	Number of Injuries and Illnesses 1985	Percent of Total	1986	Percent of Total	Percent Change 1985-1986
Head	1,180	2.5	1,149	2.5	- 2.6
Eye	1,099	2.3	1,117	2.4	+ 1.6
Neck	864	1.8	811	1.7	- 6.1
Upper Extremities, Except Finger	6,851	14.3	6,538	14.0	- 4.6
Finger	4,358	9.1	4,084	8.7	- 6.3
Trunk, Except Back	5,201	10.8	5,043	10.8	- 3.0
Back	15,043	31.3	14,496	31.0	- 3.6
Lower Extremities, Except Leg	4,088	8.5	4,076	8.7	- 0.3
Leg	3,871	8.1	3,740	8.0	- 3.4
Body Systems	1,127	2.3	1,192	2.6	+ 5.8
Multiple Parts	3,743	7.8	3,913	8.4	+ 4.5
Body Parts Unclassified	612	1.3	557	1.2	- 9.0
Total	48,037	100.0	46,716	100.0	- 2.7

Population

POPULATION OF MINNESOTA

Minnesota's population has grown slowly but steadily from 4,075,970 persons in 1980 to 4,214,013 persons in 1986.[1] This growth rate of 3.4 percent between those years is slower than the national growth rate of 6.4 percent over the same period.

Thirty-two states grew faster than Minnesota between 1980 and 1986. Six of those states -- New Hampshire, Vermont, Maine, Kansas, North Dakota, and New Jersey are the only "frostbelt" states which grew faster. Since 1983, Minnesota has grown faster than any of its immediate neighbors, and it is one of the few states west of the Mississippi River which grew faster between 1983 and 1986 than it did during the first three years of the decade.

Despite its relatively slow but steady growth, Minnesota remains twenty-first among the states on the basis of population size. In absolute numbers, Minnesota's addition of over 138,000 people between 1980 and 1986 was surpassed by 21 other states including the "frostbelt" states of Missouri, New Jersey and New York.

Minnesota's population change is a result of two factors: natural increase (births minus deaths) and migration. Since World War II, Minnesota has been a net exporter of people; therefore, natural increase has been the source of Minnesota's growth. An increase in the number of deaths and a decrease in the number of births since 1981 has led to a declining rate of natural increase. After a sudden surge in outmigration during the period from 1982 to 1984, the rate of outmigration has moderated.

Minnesota recorded approximately 404,100 births between April 1, 1980 and April 1, 1986. During the same period, approximately 201,900 deaths were recorded. The difference, or natural increase, was just over 202,200 persons. The highest rates of natural increase are found in the Twin Cities suburbs and the St. Cloud and Rochester areas, reflecting the large number of young families in these areas. The lowest rates of natural increase are found in southwestern Minnesota and some north-central counties. These areas have a high proportion of elderly residents. Norman and Aitkin Counties actually reported more deaths than births during the period between 1980 and 1986.

Although natural increase added over 202,200 people during the last six years, the population of Minnesota increased by only 138,000 persons. The difference is due to the net outmigration of almost 64,200 persons. The rate of outmigration during the six years has not been constant. Between 1980 and 1982 13,900 more people moved out of Minnesota than moved into the state.

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[1] These data are derived from the 1980 census and estimates of the 1986 population of Minnesota counties, cities, and townships available from the Office of State Demographer. Adapted from "Population Notes, November, 1987," Minnesota State Planning Agency, Office of State Demographer.

Between 1982 and 1984, the magnitude of net outmigration jumped to 38,200 persons. During the last two years, 1984 to 1986, net outmigration moderated to 12,100 persons.

Twenty-four Minnesota counties experienced net inmigration between 1980 and 1986, while the remaining 63 counties lost more people than they received. Counties surrounding the Twin Cities (Sherburne, Scott, Dakota, Chisago, Isanti and Washington Counties) and to the west and north (Hubbard, Roseau, Douglas, Cook, Kandiyohi and Otter Tail Counties) had the highest rates of inmigration. The agricultural areas in the south and west and the Iron Range and lumbering areas of northeastern Minnesota had the highest rates of outmigration. Lake, Pennington, Red Lake, St. Louis and Koochiching Counties all had outmigration rates exceeding ten percent.

Please refer to Technical Notes, page four, for explanation of the methodology used to produce age and sex estimates by county.

Twelve of the twenty fastest-growing counties in Minnesota are within metropolitan areas. Among those metropolitan counties are eight in the Twin Cities area, all three counties in the St. Cloud area and Olmsted in the Rochester area. With the exception of Kandiyohi County in west-central Minnesota and Cook County in the northeast corner of the state, the fastest growing nonmetropolitan counties are in the western lakes region of Minnesota stretching from Douglas County north to Roseau and Lake of the Woods Counties. Counties losing population are found in northeastern Minnesota and along the southern and western borders of the state.

The fastest growing counties in Minnesota are Sherburne and Scott with increases of over 19 percent between 1980 and 1986. Six other fast growing counties--Dakota, Washington, Isanti, Chisago, Anoka and Carver--surround the Twin Cities. Beltrami and Hubbard Counties also had rates of growth which rank them among the ten fastest growing counties in Minnesota. Lake County, a northeastern Minnesota county plagued by high unemployment in the iron-mining industry, had the highest rate of population loss since 1980. Other counties with high rates of population loss include Pennington, St. Louis, Traverse, Cottonwood and Koochiching.

Ten counties had population increases of more than 5,000 persons. All ten counties are located within the Twin Cities, St. Cloud or Rochester metropolitan areas. Dakota County leads the list with a population increase of 34,437 persons. Hennepin County added 26,044 persons and Anoka County grew by 23,232 persons. St. Louis County suffered the largest absolute population loss of all Minnesota counties since the 1980 Census--19,160 persons. Nine other counties located either in northeastern Minnesota or in the farming areas of southern and southwestern Minnesota experienced population losses exceeding 1,000 persons during the past six years.

The pattern of population growth in the state has changed during the decade. Between 1980 and 1983, 26 counties experienced growth of three percent or more. These were a combination of metropolitan counties and counties in northern Minnesota. Between 1983 and 1986, only 12 counties grew three percent or more. With the exception of Roseau County in northwestern Minnesota, these counties were located in the Twin Cities, St. Cloud and Rochester metropolitan areas. Many fast-growing counties in the lakes region of northern Minnesota have seen their growth moderate during the last three years. Between 1980 and 1983, 34 counties recorded population losses. Between 1983 and 1986, the number losing population increased to 48.

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
STATE TOTAL	4,214,013	342,767	608,459	757,612	1,251,914	733,946	519,315
MALE	2,071,243	175,779	312,736	380,650	631,375	360,930	209,773
FEMALE	2,142,770	166,988	295,723	376,962	620,539	373,016	309,542
NORTHWESTERN REGION	162,632	13,063	26,359	26,997	40,675	29,386	26,152
MALE	81,767	6,685	13,943	14,006	20,835	14,636	11,662
FEMALE	80,865	6,378	12,416	12,991	19,840	14,750	14,490
NORTHEASTERN REGION	320,875	23,585	46,879	52,653	87,970	58,871	50,917
MALE	159,893	12,329	24,822	26,936	45,383	29,236	21,187
FEMALE	160,982	11,256	22,057	25,717	42,587	29,635	29,730
WEST CENTRAL REGION	208,563	17,007	30,851	37,140	51,634	39,341	32,590
MALE	103,065	8,773	15,409	18,967	26,358	19,532	14,026
FEMALE	105,498	8,234	15,442	18,173	25,276	19,809	18,564
CENTRAL REGION	484,885	44,429	80,920	85,801	131,082	81,429	61,224
MALE	242,547	22,926	41,585	43,696	66,788	40,959	26,593
FEMALE	242,338	21,503	39,335	42,105	64,294	40,470	34,631
SOUTHWESTERN REGION	300,751	25,295	45,512	47,119	74,060	56,890	51,875
MALE	149,295	13,132	23,604	24,316	38,048	28,172	22,023
FEMALE	151,456	12,163	21,908	22,803	36,012	28,718	29,852
SOUTH CENTRAL REGION	220,914	18,041	31,384	42,263	56,523	38,923	33,780
MALE	109,292	9,243	16,618	21,182	29,410	19,082	13,757
FEMALE	111,622	8,798	14,766	21,081	27,113	19,841	20,023
SOUTHEASTERN REGION	412,952	34,384	60,236	73,942	113,741	73,303	57,346
MALE	201,607	17,668	30,838	35,567	57,781	36,285	23,468
FEMALE	211,345	16,716	29,398	38,375	55,960	37,018	33,878
METROPOLITAN REGION	2,102,441	166,963	286,318	391,697	696,229	355,803	205,431
MALE	1,023,777	85,023	145,917	195,980	346,772	173,028	77,057
FEMALE	1,078,664	81,940	140,401	195,717	349,457	182,775	128,374

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
AITKIN	13,421	945	1,952	1,837	3,038	2,709	2,940
MALE	6,675	536	936	1,016	1,474	1,345	1,368
FEMALE	6,746	409	1,016	821	1,564	1,364	1,572
ANOKA	219,230	20,153	39,765	39,725	78,745	32,879	7,963
MALE	110,506	10,307	20,685	20,008	39,809	16,475	3,222
FEMALE	108,724	9,846	19,080	19,717	38,936	16,404	4,741
BECKER	31,258	2,810	5,135	4,524	8,314	6,000	4,475
MALE	15,819	1,500	2,639	2,498	4,162	3,066	1,954
FEMALE	15,439	1,310	2,496	2,026	4,152	2,934	2,521
BELTRAMI	33,720	2,735	5,356	7,421	8,606	5,655	3,947
MALE	17,108	1,356	2,927	3,796	4,475	2,851	1,703
FEMALE	16,612	1,379	2,429	3,625	4,131	2,804	2,244
BENTON	27,455	2,815	4,393	5,561	7,892	4,250	2,544
MALE	13,683	1,431	2,237	2,749	4,011	2,150	1,105
FEMALE	13,772	1,384	2,156	2,812	3,881	2,100	1,439
BIG STONE	7,760	651	1,182	1,166	1,625	1,560	1,576
MALE	3,854	344	601	631	858	761	659
FEMALE	3,906	307	581	535	767	799	917
BLUE EARTH	52,768	3,920	6,712	14,283	13,332	7,959	6,562
MALE	25,449	2,044	3,407	6,772	6,883	3,852	2,491
FEMALE	27,319	1,876	3,305	7,511	6,449	4,107	4,071
BROWN	28,015	2,196	3,798	5,223	6,661	5,309	4,828
MALE	13,417	1,116	2,050	2,470	3,211	2,595	1,975
FEMALE	14,598	1,080	1,748	2,753	3,450	2,714	2,853
CARLTON	28,541	2,245	4,526	4,647	7,445	5,288	4,390
MALE	14,404	1,177	2,390	2,461	3,810	2,658	1,908
FEMALE	14,137	1,068	2,136	2,186	3,635	2,630	2,482

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
CARVER	41,586	3,844	6,593	7,888	13,284	6,632	3,345
MALE	21,307	2,016	3,551	4,219	6,796	3,378	1,347
FEMALE	20,279	1,828	3,042	3,669	6,488	3,254	1,998
CASS	21,300	1,628	3,238	2,748	4,896	4,731	4,059
MALE	10,754	809	1,566	1,524	2,551	2,371	1,933
FEMALE	10,546	819	1,672	1,224	2,345	2,360	2,126
CHIPPEWA	14,560	1,221	2,044	2,132	3,607	2,948	2,608
MALE	7,318	618	1,104	1,127	1,946	1,437	1,086
FEMALE	7,242	603	940	1,005	1,661	1,511	1,522
CHISAGO	28,668	2,812	5,032	4,644	8,014	4,605	3,561
MALE	14,547	1,496	2,625	2,435	4,140	2,265	1,586
FEMALE	14,121	1,316	2,407	2,209	3,874	2,340	1,975
CLAY	49,256	3,761	6,607	13,080	12,487	7,769	5,552
MALE	24,114	1,863	3,229	6,294	6,586	3,860	2,282
FEMALE	25,142	1,898	3,378	6,786	5,901	3,909	3,270
CLEARWATER	9,018	773	1,616	1,298	2,153	1,549	1,629
MALE	4,614	414	823	726	1,127	758	766
FEMALE	4,404	359	793	572	1,026	791	863
COOK	4,350	289	641	567	1,336	865	652
MALE	2,116	146	339	279	650	431	271
FEMALE	2,234	143	302	288	686	434	381
COTTONWOOD	13,640	1,084	1,944	1,899	3,145	2,734	2,834
MALE	6,697	595	884	990	1,657	1,382	1,189
FEMALE	6,943	489	1,060	909	1,488	1,352	1,645
CROW WING	43,508	3,474	6,558	6,367	10,646	8,643	7,820
MALE	21,049	1,829	3,254	3,308	5,086	4,171	3,401
FEMALE	22,459	1,645	3,304	3,059	5,560	4,472	4,419

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
DAKOTA	228,716	20,953	39,139	38,161	83,157	35,026	12,280
MALE	113,786	10,535	20,011	19,324	41,161	17,758	4,997
FEMALE	114,930	10,418	19,128	18,837	41,996	17,268	7,283
DODGE	15,210	1,586	2,704	2,388	4,260	2,272	2,000
MALE	7,675	788	1,362	1,267	2,237	1,156	865
FEMALE	7,535	798	1,342	1,121	2,023	1,116	1,135
DOUGLAS	29,953	2,505	4,350	4,882	7,499	5,650	5,067
MALE	14,607	1,251	2,182	2,448	3,770	2,789	2,167
FEMALE	15,346	1,254	2,168	2,434	3,729	2,861	2,900
FARIBAULT	18,424	1,498	2,756	2,431	4,036	3,916	3,787
MALE	8,865	768	1,467	1,285	1,981	1,851	1,513
FEMALE	9,559	730	1,289	1,146	2,055	2,065	2,274
FILLMORE	21,443	1,700	3,253	3,165	4,949	4,065	4,311
MALE	10,732	964	1,751	1,596	2,518	1,988	1,915
FEMALE	10,711	736	1,502	1,569	2,431	2,077	2,396
FREEBORN	34,587	2,672	5,111	5,490	8,671	6,957	5,686
MALE	16,903	1,342	2,522	2,864	4,442	3,425	2,308
FEMALE	17,684	1,330	2,589	2,626	4,229	3,532	3,378
GOODHUE	40,075	3,528	6,235	5,892	10,963	7,427	6,030
MALE	19,981	1,827	3,286	3,125	5,562	3,695	2,486
FEMALE	20,094	1,701	2,949	2,767	5,401	3,732	3,544
GRANT	7,055	527	1,048	946	1,546	1,386	1,602
MALE	3,497	299	552	499	735	696	716
FEMALE	3,558	228	496	447	811	690	886
HENNEPIN	967,455	67,890	110,846	185,694	318,444	171,265	113,316
MALE	465,518	34,187	56,505	92,569	157,670	82,655	41,932
FEMALE	501,937	33,703	54,341	93,125	160,774	88,610	71,384

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
HOUSTON	19,072	1,591	2,934	2,969	5,023	3,609	2,946
MALE	9,696	879	1,486	1,602	2,662	1,806	1,261
FEMALE	9,376	712	1,448	1,367	2,361	1,803	1,685
HUBBARD	15,529	1,198	2,610	2,210	4,033	2,838	2,640
MALE	7,499	511	1,293	1,082	1,963	1,433	1,217
FEMALE	8,030	687	1,317	1,128	2,070	1,405	1,423
ISANTI	26,299	2,362	4,943	4,058	8,394	4,041	2,501
MALE	12,793	1,207	2,454	2,043	3,999	2,041	1,049
FEMALE	13,506	1,155	2,489	2,015	4,395	2,000	1,452
ITASCA	43,914	3,567	7,412	6,723	12,121	7,901	6,190
MALE	22,493	1,939	4,157	3,459	6,219	3,933	2,786
FEMALE	21,421	1,628	3,255	3,264	5,902	3,968	3,404
JACKSON	13,239	1,197	1,938	2,069	3,383	2,545	2,107
MALE	6,653	661	963	1,091	1,838	1,221	879
FEMALE	6,586	536	975	978	1,545	1,324	1,228
KANABEC	12,630	1,172	2,213	1,887	3,313	2,312	1,733
MALE	6,304	618	1,135	999	1,649	1,137	766
FEMALE	6,326	554	1,078	888	1,664	1,175	967
KANDIYOHI	39,879	3,307	5,780	7,576	10,757	6,904	5,555
MALE	19,593	1,677	2,945	3,650	5,467	3,493	2,361
FEMALE	20,286	1,630	2,835	3,926	5,290	3,411	3,194
KITTSON	6,589	533	867	875	1,675	1,380	1,259
MALE	3,272	282	437	423	862	691	577
FEMALE	3,317	251	430	452	813	689	682
KOOCHICHING	16,155	1,277	2,670	2,621	4,091	3,094	2,402
MALE	8,057	649	1,407	1,338	2,050	1,538	1,075
FEMALE	8,098	628	1,263	1,283	2,041	1,556	1,327

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
LAC QUI PARLE	10,129	826	1,482	1,425	2,319	2,100	1,977
MALE	5,075	430	716	774	1,235	1,050	870
FEMALE	5,054	396	766	651	1,084	1,050	1,107
LAKE	11,425	820	1,653	1,734	3,126	2,429	1,663
MALE	6,074	467	851	987	1,720	1,306	743
FEMALE	5,351	353	802	747	1,406	1,123	920
LAKE OF THE WOODS	3,895	281	547	554	990	819	704
MALE	1,978	165	301	289	512	375	336
FEMALE	1,917	116	246	265	478	444	368
LESUEUR	23,607	2,070	3,721	3,321	6,352	4,278	3,865
MALE	11,950	997	1,950	1,807	3,406	2,145	1,645
FEMALE	11,657	1,073	1,771	1,514	2,946	2,133	2,220
LINCOLN	7,740	591	1,217	1,046	1,606	1,600	1,680
MALE	3,866	273	640	569	828	808	748
FEMALE	3,874	318	577	477	778	792	932
LYON	25,506	2,269	3,889	4,970	6,425	4,155	3,798
MALE	12,627	1,232	2,036	2,421	3,292	2,037	1,609
FEMALE	12,879	1,037	1,853	2,549	3,133	2,118	2,189
MCLEOD	30,415	2,791	4,803	4,660	8,370	5,311	4,480
MALE	14,989	1,475	2,563	2,317	4,165	2,615	1,854
FEMALE	15,426	1,316	2,240	2,343	4,205	2,696	2,626
MAHNOMEN	5,561	448	1,086	842	1,230	1,019	936
MALE	2,880	222	569	472	644	525	448
FEMALE	2,681	226	517	370	586	494	488
MARSHALL	12,675	1,051	2,197	1,736	3,118	2,430	2,143
MALE	6,548	613	1,160	906	1,619	1,248	1,002
FEMALE	6,127	438	1,037	830	1,499	1,182	1,141

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
MARTIN	24,115	1,964	3,533	3,639	6,123	4,506	4,350
MALE	12,253	1,057	1,989	1,959	3,277	2,200	1,771
FEMALE	11,862	907	1,544	1,680	2,846	2,306	2,579
MEEKER	21,110	1,919	3,446	3,076	5,305	4,028	3,336
MALE	10,721	1,008	1,852	1,641	2,774	2,022	1,424
FEMALE	10,389	911	1,594	1,435	2,531	2,006	1,912
MILLE LACS	18,671	1,738	2,896	2,727	4,593	3,279	3,438
MALE	9,453	980	1,544	1,492	2,335	1,578	1,524
FEMALE	9,218	758	1,352	1,235	2,258	1,701	1,914
MORRISON	30,228	2,920	5,270	4,929	7,077	5,503	4,529
MALE	15,047	1,502	2,719	2,542	3,545	2,769	1,970
FEMALE	15,181	1,418	2,551	2,387	3,532	2,734	2,559
MOWER	39,243	2,994	5,574	5,618	8,915	8,894	7,248
MALE	18,934	1,557	2,766	2,813	4,561	4,265	2,972
FEMALE	20,309	1,437	2,808	2,805	4,354	4,629	4,276
MURRAY	10,996	872	1,881	1,532	2,545	2,257	1,909
MALE	5,520	432	1,004	813	1,343	1,091	837
FEMALE	5,476	440	877	719	1,202	1,166	1,072
NICOLLET	28,278	2,277	4,096	6,533	8,209	4,307	2,856
MALE	14,474	1,148	2,145	3,338	4,493	2,184	1,166
FEMALE	13,804	1,129	1,951	3,195	3,716	2,123	1,690
NOBLES	21,395	1,631	3,080	3,318	5,298	4,336	3,732
MALE	10,277	798	1,496	1,752	2,532	2,148	1,551
FEMALE	11,118	833	1,584	1,566	2,766	2,188	2,181
NORMAN	9,062	747	1,491	1,144	2,001	1,879	1,800
MALE	4,422	329	799	589	979	915	811
FEMALE	4,640	418	692	555	1,022	964	989

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
OLMSTED	98,850	8,309	13,489	18,981	32,273	16,289	9,509
MALE	47,088	4,257	7,063	8,130	16,004	8,144	3,490
FEMALE	51,762	4,052	6,426	10,851	16,269	8,145	6,019
OTTER TAIL	54,970	4,419	8,397	7,764	13,609	11,291	9,490
MALE	27,022	2,340	4,124	4,049	6,774	5,574	4,161
FEMALE	27,948	2,079	4,273	3,715	6,835	5,717	5,329
PENNINGTON	13,683	1,098	2,011	2,417	3,625	2,249	2,283
MALE	6,759	597	1,022	1,233	1,849	1,092	966
FEMALE	6,924	501	989	1,184	1,776	1,157	1,317
PINE	20,900	1,678	3,377	2,950	5,583	3,984	3,328
MALE	10,826	864	1,746	1,597	3,027	2,105	1,487
FEMALE	10,074	814	1,631	1,353	2,556	1,879	1,841
PIPESTONE	11,155	910	1,672	1,608	2,512	2,248	2,205
MALE	5,381	431	844	856	1,250	1,096	904
FEMALE	5,774	479	828	752	1,262	1,152	1,301
POLK	34,102	2,577	5,434	5,659	8,360	6,265	5,807
MALE	17,022	1,381	2,936	2,954	4,253	3,053	2,445
FEMALE	17,080	1,196	2,498	2,705	4,107	3,212	3,362
POPE	11,698	1,025	1,794	1,450	2,646	2,544	2,239
MALE	5,798	532	885	745	1,394	1,257	985
FEMALE	5,900	493	909	705	1,252	1,287	1,254
RAMSEY	465,287	37,747	56,325	90,281	140,026	82,561	58,347
MALE	222,285	19,522	28,229	44,263	70,268	38,656	21,347
FEMALE	243,002	18,225	28,096	46,018	69,758	43,905	37,000
RED LAKE	5,062	408	950	777	1,166	829	932
MALE	2,505	195	462	404	612	405	427
FEMALE	2,557	213	488	373	554	424	505

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
REDWOOD	18,443	1,448	2,968	2,585	4,541	3,340	3,561
MALE	9,319	734	1,582	1,427	2,367	1,697	1,512
FEMALE	9,124	714	1,386	1,158	2,174	1,643	2,049
RENVILLE	19,213	1,586	2,987	2,662	4,475	3,948	3,555
MALE	9,551	795	1,610	1,406	2,261	1,942	1,537
FEMALE	9,662	791	1,377	1,256	2,214	2,006	2,018
RICE	47,599	3,924	6,858	10,843	13,069	7,285	5,620
MALE	23,221	1,893	3,409	5,395	6,589	3,653	2,282
FEMALE	24,378	2,031	3,449	5,448	6,480	3,632	3,338
ROCK	10,442	942	1,598	1,500	2,560	2,053	1,789
MALE	4,995	486	787	727	1,242	1,004	749
FEMALE	5,447	456	811	773	1,318	1,049	1,040
ROSEAU	13,736	1,214	2,194	2,064	3,718	2,474	2,072
MALE	7,160	620	1,214	1,132	1,940	1,290	964
FEMALE	6,576	594	980	932	1,778	1,184	1,108
ST LOUIS	203,069	14,442	28,025	34,524	56,813	36,585	32,680
MALE	100,074	7,415	14,742	17,396	29,460	18,025	13,036
FEMALE	102,995	7,027	13,283	17,128	27,353	18,560	19,644
SCOTT	52,255	5,094	9,899	9,009	17,491	7,552	3,210
MALE	26,551	2,617	5,204	4,702	8,819	3,857	1,352
FEMALE	25,704	2,477	4,695	4,307	8,672	3,695	1,858
SHERBURNE	35,781	3,316	7,012	5,866	11,973	4,990	2,624
MALE	17,979	1,644	3,513	3,130	6,036	2,509	1,147
FEMALE	17,802	1,672	3,499	2,736	5,937	2,481	1,477
SIBLEY	15,461	1,329	2,570	2,273	3,726	3,009	2,554
MALE	7,778	681	1,349	1,182	1,973	1,467	1,126
FEMALE	7,683	648	1,221	1,091	1,753	1,542	1,428

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
STEARNS	115,786	10,351	17,704	27,754	29,406	18,292	12,279
MALE	58,257	5,486	9,355	13,592	15,457	9,312	5,055
FEMALE	57,529	4,865	8,349	14,162	13,949	8,980	7,224
STEELE	30,726	2,830	4,512	5,015	8,719	5,497	4,153
MALE	15,101	1,415	2,226	2,472	4,534	2,679	1,775
FEMALE	15,625	1,415	2,286	2,543	4,185	2,818	2,378
STEVENS	11,128	873	1,505	2,538	2,495	1,958	1,759
MALE	5,628	446	780	1,348	1,383	920	751
FEMALE	5,500	427	725	1,190	1,112	1,038	1,008
SWIFT	12,445	993	1,959	1,961	2,689	2,355	2,488
MALE	6,387	560	1,081	1,069	1,447	1,147	1,083
FEMALE	6,058	433	878	892	1,242	1,208	1,405
TODD	25,456	2,481	4,261	4,034	5,945	4,836	3,899
MALE	12,933	1,306	2,247	2,168	3,043	2,467	1,702
FEMALE	12,523	1,175	2,014	1,866	2,902	2,369	2,197
TRAVERSE	5,088	380	724	750	1,005	1,137	1,092
MALE	2,526	206	382	400	502	571	465
FEMALE	2,562	174	342	350	503	566	627
WABASHA	19,352	1,655	2,912	3,031	4,790	3,466	3,498
MALE	9,804	835	1,479	1,579	2,543	1,831	1,537
FEMALE	9,548	820	1,433	1,452	2,247	1,635	1,961
WADENA	13,748	981	2,486	1,932	3,229	2,585	2,535
MALE	6,501	444	1,143	1,003	1,571	1,224	1,116
FEMALE	7,247	537	1,343	929	1,658	1,361	1,419
WASECA	18,644	1,817	2,641	2,975	5,209	3,295	2,707
MALE	9,371	922	1,436	1,544	2,671	1,663	1,135
FEMALE	9,273	895	1,205	1,431	2,538	1,632	1,572

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
WASHINGTON	127,912	11,282	23,751	20,939	45,082	19,888	6,970
MALE	63,824	5,839	11,732	10,895	22,249	10,249	2,860
FEMALE	64,088	5,443	12,019	10,044	22,833	9,639	4,110
WATONWAN	11,602	970	1,557	1,585	2,875	2,344	2,271
MALE	5,735	510	825	825	1,515	1,125	935
FEMALE	5,867	460	732	760	1,360	1,219	1,336
WILKIN	8,157	707	1,291	1,206	2,033	1,606	1,314
MALE	4,054	336	636	686	1,052	799	545
FEMALE	4,103	371	655	520	981	807	769
WINONA	46,795	3,595	6,654	10,550	12,109	7,542	6,345
MALE	22,472	1,911	3,488	4,724	6,129	3,643	2,577
FEMALE	24,323	1,684	3,166	5,826	5,980	3,899	3,768
WRIGHT	64,455	6,701	11,537	10,344	20,121	9,378	6,374
MALE	32,421	3,310	6,047	5,114	10,338	4,860	2,752
FEMALE	32,034	3,391	5,490	5,230	9,783	4,518	3,622
YELLOW MEDICINE	12,684	1,057	1,642	1,934	2,898	2,468	2,685
MALE	6,472	583	896	1,055	1,546	1,221	1,171
FEMALE	6,212	474	746	879	1,352	1,247	1,514
MINNEAPOLIS	360,000	23,761	31,211	75,003	115,428	55,588	59,009
MALE	170,093	11,951	15,837	37,041	58,973	25,763	20,528
FEMALE	189,907	11,810	15,374	37,962	56,455	29,825	38,481
ST PAUL	267,000	21,513	28,937	51,571	75,912	45,935	43,132
MALE	124,964	11,045	14,590	24,868	38,440	20,715	15,306
FEMALE	142,036	10,468	14,347	26,703	37,472	25,220	27,826
DULUTH	84,016	5,353	10,224	16,045	22,564	14,382	15,448
MALE	39,767	2,708	5,388	7,767	11,494	6,820	5,590
FEMALE	44,249	2,645	4,836	8,278	11,070	7,562	9,858

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* Prepared by MCHS using State Demographer's county totals as input.
** As of 1980 Census.

Appendices

APPENDIX A

DEFINITIONS

DEFINITIONS

ABORTION, INDUCED:

The intentional, premature removal from the uterus of a non-viable fetus.

ABORTION PROCEDURES:

Dilation and curettage (sharp curettage): Mechanical dilation of the cervix with removal of the uterine contents by scraping the uterine wall with a surgical curette.

(Dilation and Evacuation, D & E) (Laminaria and curettage): Dilation of the cervix by insertion of laminaria several hours before removal of uterine contents by suction and sharp curettage.

Hysterectomy/hysterotomy: Removal of the fetus by means of a surgical incision made in the uterine wall. In the case of hysterectomy, the entire uterus is removed.

Menstrual extraction (m. regulation, m. induction): Evacuation of the uterine contents by suction curettage, usually before the diagnosis of pregnancy is reliable. Urine pregnancy test may be negative (-) or positive (+).

Prostaglandin: Induction of labor by injection of a prostaglandin (naturally occurring hormone) solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation. Other hormones may be given intravenously to assist labor.

Saline/fluid exchange: Induction of labor by injection of a sterile salt solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation.

Vacuum curettage: Mechanical dilation of the cervix with removal of the uterine contents by low pressure suction created by an electric suction pump.

ABORTION, RESIDENT:

Abortions to Minnesota residents which occurred in Minnesota and were reported during this Surveillance period.

CAUSE OF DEATH:

The Ninth Revision of the International Classification of Diseases (ICD) was used.

COMPLICATIONS OF INDUCED ABORTION:

Any unfavorable condition related to the abortion as reported by the provider facility including: hemorrhage (more than 500 ml), pelvic infection, fever, cervical injury, uterine perforation, or retained tissue.

CURETTE:

A spoon-shaped surgical instrument.

CURETTAGE:

The removal of material from the uterine wall with a curette. Also, the induction of endometrial bleeding by administration and withdrawal of any progestational agent.

FETAL DEATH:

Fetal death is death prior to the complete expulsion or extraction of a product of conception from its mother, irrespective of the duration of pregnancy. In this summary only the fetal deaths of 20 weeks or more are reported.

FETAL DEATH ORDER:

The number of fetal deaths including the current fetal death.

GESTATION:

The period of development of the fetus, expressed in completed weeks, calculated from the first day of the last menstrual period (LMP).

HIGH RISK BIRTH:

A birth is classified as high risk if any of the following conditions exist:

Mother's age: Less than 17 years or over 39 years.
Prenatal care: Less than 3 visits.
Condition not related to pregnancy: Tuberculosis, rubella, diabetes, cardiac condition, or urinary tract infection.
Condition related to pregnancy: Hydramnios or toxemia.
Condition of labor: Prolonged labor.
Birth weight: 2,499 grams or less (5 lb. 8 oz.)
Birth injury: To brain, spinal cord, fractures, other bone injury, paralysis, or nerve injuries.
Birth condition: Hemolytic diseases of newborn, hyaline membrane D, respiratory distress syndrome, or atelectasis.
Congenital anomaly

INFANT DEATH

A death under one year of age.

LAMINARIA:

Sterile, dried marine plant stems which are capable of expanding with fluid absorption.

LIVE BIRTH:

Live birth means the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which after such separation breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached, each product of such a birth is considered a live born.

LIVE BIRTH ORDER:

The number of live births including the current birth.

MATERNAL DEATH:

Maternal death is a death attributable to delivery or a complication of pregnancy, childbirth, or the puerperium, as defined by the International Classification of Diseases.

NEONATAL DEATH:

A death to an infant under 28 days of age.

RATE:

Rates are given per 1,000 except for certain causes of death when they are stated as per 100,000. See Technical Notes, page 8 for explanations of specific rates included in this report.

REGION:

Region refers to the eight Minnesota Department of Health Districts. Region names and counties within regions follow:

Northwestern: Beltrami, Clearwater, Hubbard, Kittson, Lake of the Woods, Mahnomen, Marshall, Norman, Pennington, Polk, Red Lake and Roseau

Northeastern: Aitkin, Carlton, Cook, Itasca, Koochiching, Lake, and St. Louis

West Central: Becker, Clay, Douglas, Grant, Otter Tail, Pope, Stevens, Traverse, and Wilkin

Central: Benton, Cass, Chisago, Crow Wing, Isanti, Kanabec, Mille Lacs, Morrison, Pine, Sherburne, Stearns, Todd, Wadena, and Wright

Southwestern: Big Stone, Chippewa, Cottonwood, Jackson, Kandiyohi, Lac Qui Parle, Lincoln, Lyon, McLeod, Meeker, Murray, Nobles, Pipestone, Redwood, Renville, Rock, Swift, and Yellow Medicine

South Central: Blue Earth, Brown, Faribault, Le Sueur, Martin, Nicollet, Sibley, Waseca, and Watonwan

Southeastern: Dodge, Fillmore, Freeborn, Goodhue, Houston, Mower, Olmsted, Rice, Steele, Wabasha, and Winona

Metropolitan: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington.

RESIDENCE:

This is the geographic area of the usual place of abode of the deceased at the time of death, of the mother in the case of live births or fetal deaths, and of the induced abortion recipient. This means, in general, the place where one lives and sleeps most of the time. However, when usual residence is in a nursing home or other institution, where the patient resided for the purpose of receiving care, residence is coded to the place where the patient lived prior to admission to the institution.

RESIDENT PERCENTAGE, REPORTED INDUCED ABORTIONS:

The number of Minnesota residents receiving induced abortions per 100 total reported induced abortions occurring in Minnesota. Most tables relating to abortions include resident percentages pertinent to selected variables contained within the individual tables.

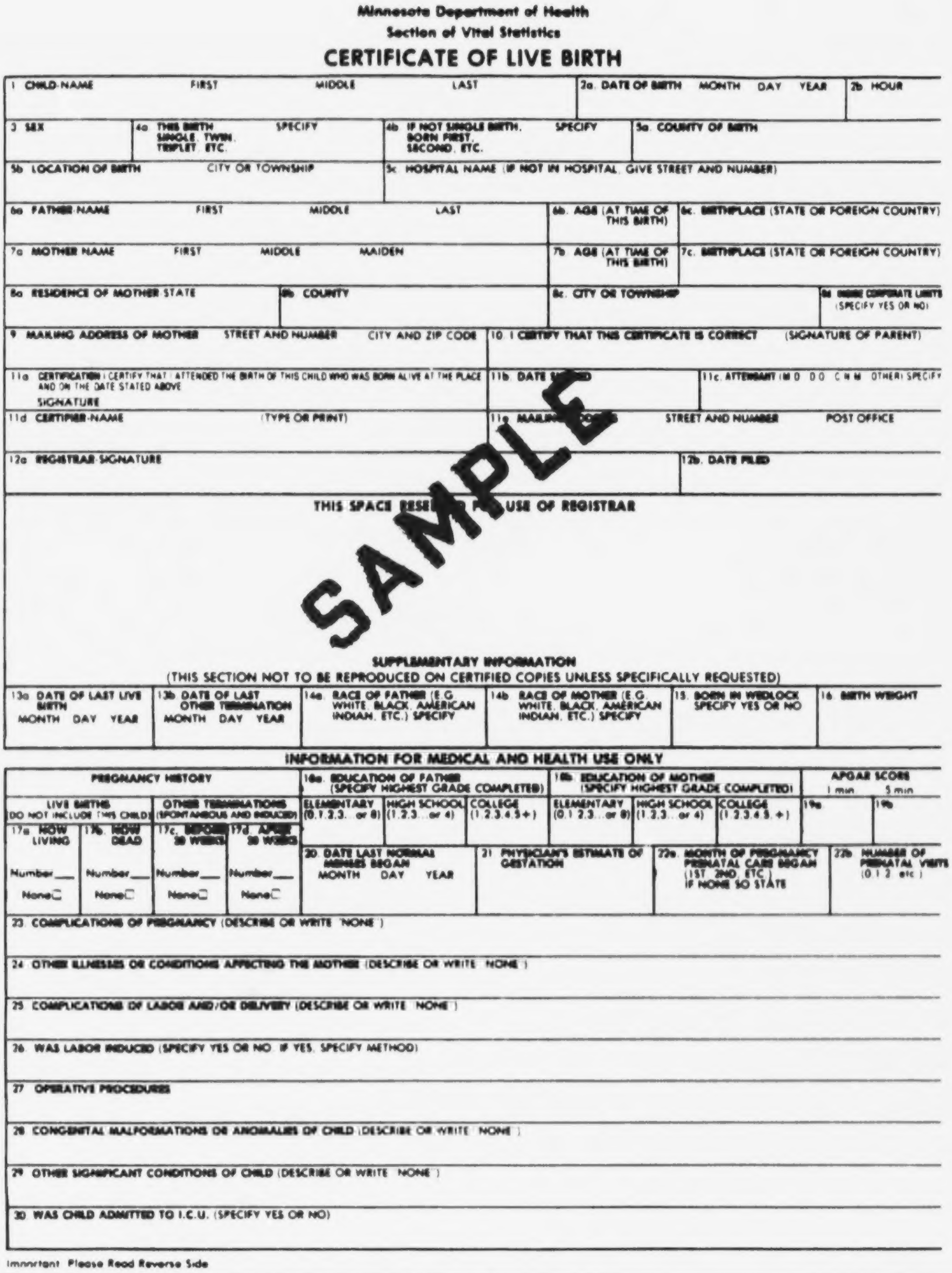
TRIMESTER:

One third of the total gestational period necessary for a full-term pregnancy. Thirteen weeks are allotted to each trimester. The count of weeks begins with the first day of the last menstrual period.

APPENDIX B

DATA COLLECTION INSTRUMENTS

FIGURE 8



Minnesota Department of Health
Section of Vital Statistics

CERTIFICATE OF LIVE BIRTH

1 CHILD-NAME FIRST MIDDLE LAST		2a. DATE OF BIRTH MONTH DAY YEAR	2b HOUR
3 SEX	4a THIS BIRTH SINGLE, TWIN, TRIPLET, ETC. SPECIFY	4b IF NOT SINGLE BIRTH, BORN FIRST, SECOND, ETC. SPECIFY	5a. COUNTY OF BIRTH
5b LOCATION OF BIRTH CITY OR TOWNSHIP	5c HOSPITAL NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)		
6a FATHER-NAME FIRST MIDDLE LAST		6b. AGE (AT TIME OF THIS BIRTH)	6c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
7a MOTHER NAME FIRST MIDDLE MAIDEN		7b AGE (AT TIME OF THIS BIRTH)	7c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
8a RESIDENCE OF MOTHER STATE	8b COUNTY	8c. CITY OR TOWNSHIP	8d INSIDE CORPORATE LIMITS (SPECIFY YES OR NO)
9 MAILING ADDRESS OF MOTHER STREET AND NUMBER CITY AND ZIP CODE	10. I CERTIFY THAT THIS CERTIFICATE IS CORRECT (SIGNATURE OF PARENT)		
11a CERTIFICATION I CERTIFY THAT I ATTENDED THE BIRTH OF THIS CHILD WHO WAS BORN ALIVE AT THE PLACE AND ON THE DATE STATED ABOVE SIGNATURE	11b. DATE SIGNED	11c. ATTENDANT (M.D. D.O. C.N.M. OTHER) SPECIFY	
11d CERTIFIER-NAME (TYPE OR PRINT)	11e MAILING ADDRESS STREET AND NUMBER POST OFFICE		
12a REGISTRAR-SIGNATURE		12b. DATE FILED	

THIS SPACE RESERVED FOR USE OF REGISTRAR

SAMPLE

SUPPLEMENTARY INFORMATION
(THIS SECTION NOT TO BE REPRODUCED ON CERTIFIED COPIES UNLESS SPECIFICALLY REQUESTED)

13a DATE OF LAST LIVE BIRTH MONTH DAY YEAR	13b DATE OF LAST OTHER TERMINATION MONTH DAY YEAR	14a. RACE OF FATHER (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY	14b RACE OF MOTHER (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY	15. BORN IN WEDLOCK SPECIFY YES OR NO	16. BIRTH WEIGHT

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

PREGNANCY HISTORY				18a. EDUCATION OF FATHER (SPECIFY HIGHEST GRADE COMPLETED)			18b. EDUCATION OF MOTHER (SPECIFY HIGHEST GRADE COMPLETED)		APGAR SCORE
LIVE BIRTHS (DO NOT INCLUDE THIS CHILD)		OTHER TERMINATIONS (SPONTANEOUS AND INDUCED)		ELEMENTARY (0,1,2,3,... or 8)	HIGH SCHOOL (1,2,3,... or 4)	COLLEGE (1,2,3,4,5+)	ELEMENTARY (0,1,2,3,... or 8)	HIGH SCHOOL (1,2,3,... or 4)	COLLEGE (1,2,3,4,5,+)
17a NOW LIVING	17b. NOW DEAD	17c. BEFORE 20 WEEKS	17d. AFTER 20 WEEKS					19a 1 min	19b 5 min
Number___ None☐	Number___ None☐	Number___ None☐	Number___ None☐	20. DATE LAST NORMAL MENSES BEGAN MONTH DAY YEAR	21 PHYSICIAN'S ESTIMATE OF GESTATION		22a. MONTH OF PREGNANCY PRENATAL CARE BEGAN (1ST, 2ND, ETC.) IF NONE SO STATE	22b NUMBER OF PRENATAL VISITS (0,1,2, etc.)	

23. COMPLICATIONS OF PREGNANCY (DESCRIBE OR WRITE "NONE")

24. OTHER ILLNESSES OR CONDITIONS AFFECTING THE MOTHER (DESCRIBE OR WRITE "NONE")

25. COMPLICATIONS OF LABOR AND/OR DELIVERY (DESCRIBE OR WRITE "NONE")

26. WAS LABOR INDUCED (SPECIFY YES OR NO. IF YES, SPECIFY METHOD)

27. OPERATIVE PROCEDURES

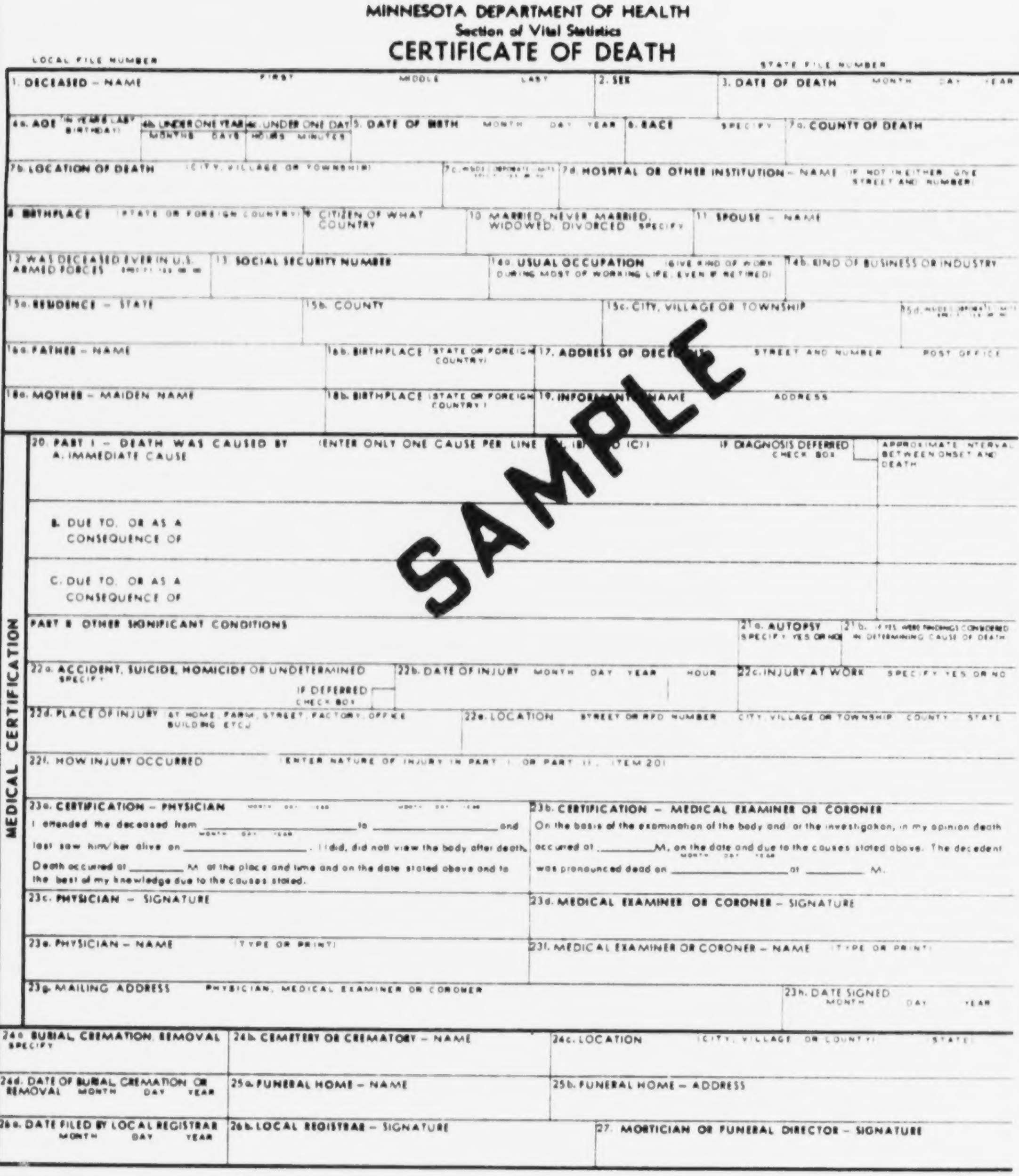
28. CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (DESCRIBE OR WRITE "NONE")

29. OTHER SIGNIFICANT CONDITIONS OF CHILD (DESCRIBE OR WRITE "NONE")

30. WAS CHILD ADMITTED TO I.C.U. (SPECIFY YES OR NO)

Important Please Read Reverse Side

FIGURE 9



MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics
CERTIFICATE OF DEATH

LOCAL FILE NUMBER
STATE FILE NUMBER

1. **DECEASED** – NAME FIRST MIDDLE LAST			2. **SEX**	3. **DATE OF DEATH** MONTH DAY YEAR
4a. **AGE** (IN YEARS LAST BIRTHDAY)	4b. UNDER ONE YEAR MONTHS DAYS	4c. UNDER ONE DAY HOURS MINUTES	5. **DATE OF BIRTH** MONTH DAY YEAR	6. **RACE** SPECIFY
7a. **COUNTY OF DEATH**				
7b. **LOCATION OF DEATH** (CITY, VILLAGE OR TOWNSHIP)	7c.	7d. **HOSPITAL OR OTHER INSTITUTION** – NAME (IF NOT IN EITHER, GIVE STREET AND NUMBER)		
8. **BIRTHPLACE** (STATE OR FOREIGN COUNTRY)	9. CITIZEN OF WHAT COUNTRY	10. MARRIED, NEVER MARRIED, WIDOWED, DIVORCED SPECIFY	11. **SPOUSE** – NAME	
12. WAS DECEASED EVER IN U.S. ARMED FORCES	13. **SOCIAL SECURITY NUMBER**	14a. **USUAL OCCUPATION** (GIVE KIND OF WORK DURING MOST OF WORKING LIFE, EVEN IF RETIRED)	14b. KIND OF BUSINESS OR INDUSTRY	
15a. **RESIDENCE** – STATE	15b. COUNTY	15c. CITY, VILLAGE OR TOWNSHIP	15d.	
16a. **FATHER** – NAME	16b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)	17. **ADDRESS OF DECEDENT** STREET AND NUMBER POST OFFICE		
18a. **MOTHER** – MAIDEN NAME	18b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)	19. **INFORMANT** – NAME ADDRESS		

MEDICAL CERTIFICATION

20. **PART I** – **DEATH WAS CAUSED BY** (ENTER ONLY ONE CAUSE PER LINE (A), (B) AND (C))
A. IMMEDIATE CAUSE
IF DIAGNOSIS DEFERRED CHECK BOX ☐
APPROXIMATE INTERVAL BETWEEN ONSET AND DEATH

B. DUE TO, OR AS A CONSEQUENCE OF

C. DUE TO, OR AS A CONSEQUENCE OF

PART II OTHER SIGNIFICANT CONDITIONS

21a. **AUTOPSY** SPECIFY YES OR NO

21b. IF YES, WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH

22a. **ACCIDENT, SUICIDE, HOMICIDE** OR UNDETERMINED SPECIFY
IF DEFERRED CHECK BOX ☐

22b. DATE OF INJURY MONTH DAY YEAR HOUR

22c. INJURY AT WORK SPECIFY YES OR NO

22d. PLACE OF INJURY (AT HOME, FARM, STREET, FACTORY, OFFICE BUILDING, ETC.)

22e. LOCATION STREET OR RFD NUMBER CITY, VILLAGE OR TOWNSHIP COUNTY STATE

22f. HOW INJURY OCCURRED (ENTER NATURE OF INJURY IN PART I OR PART II, ITEM 20)

23a. **CERTIFICATION – PHYSICIAN**
I attended the deceased from ______________ to ______________ and last saw him/her alive on ______________. I did, did not view the body after death. Death occurred at ________ M. at the place and time and on the date stated above and to the best of my knowledge due to the causes stated.

23b. **CERTIFICATION – MEDICAL EXAMINER OR CORONER**
On the basis of the examination of the body and/or the investigation, in my opinion death occurred at ________ M, on the date and due to the causes stated above. The decedent was pronounced dead on ______________ at ________ M.

23c. **PHYSICIAN** – SIGNATURE

23d. **MEDICAL EXAMINER OR CORONER** – SIGNATURE

23e. PHYSICIAN – NAME (TYPE OR PRINT)

23f. MEDICAL EXAMINER OR CORONER – NAME (TYPE OR PRINT)

23g. MAILING ADDRESS PHYSICIAN, MEDICAL EXAMINER OR CORONER

23h. DATE SIGNED MONTH DAY YEAR

24a. **BURIAL, CREMATION, REMOVAL** SPECIFY

24b. **CEMETERY OR CREMATORY** – NAME

24c. LOCATION (CITY, VILLAGE OR COUNTY) (STATE)

24d. DATE OF BURIAL, CREMATION OR REMOVAL MONTH DAY YEAR

25a. **FUNERAL HOME** – NAME

25b. **FUNERAL HOME** – ADDRESS

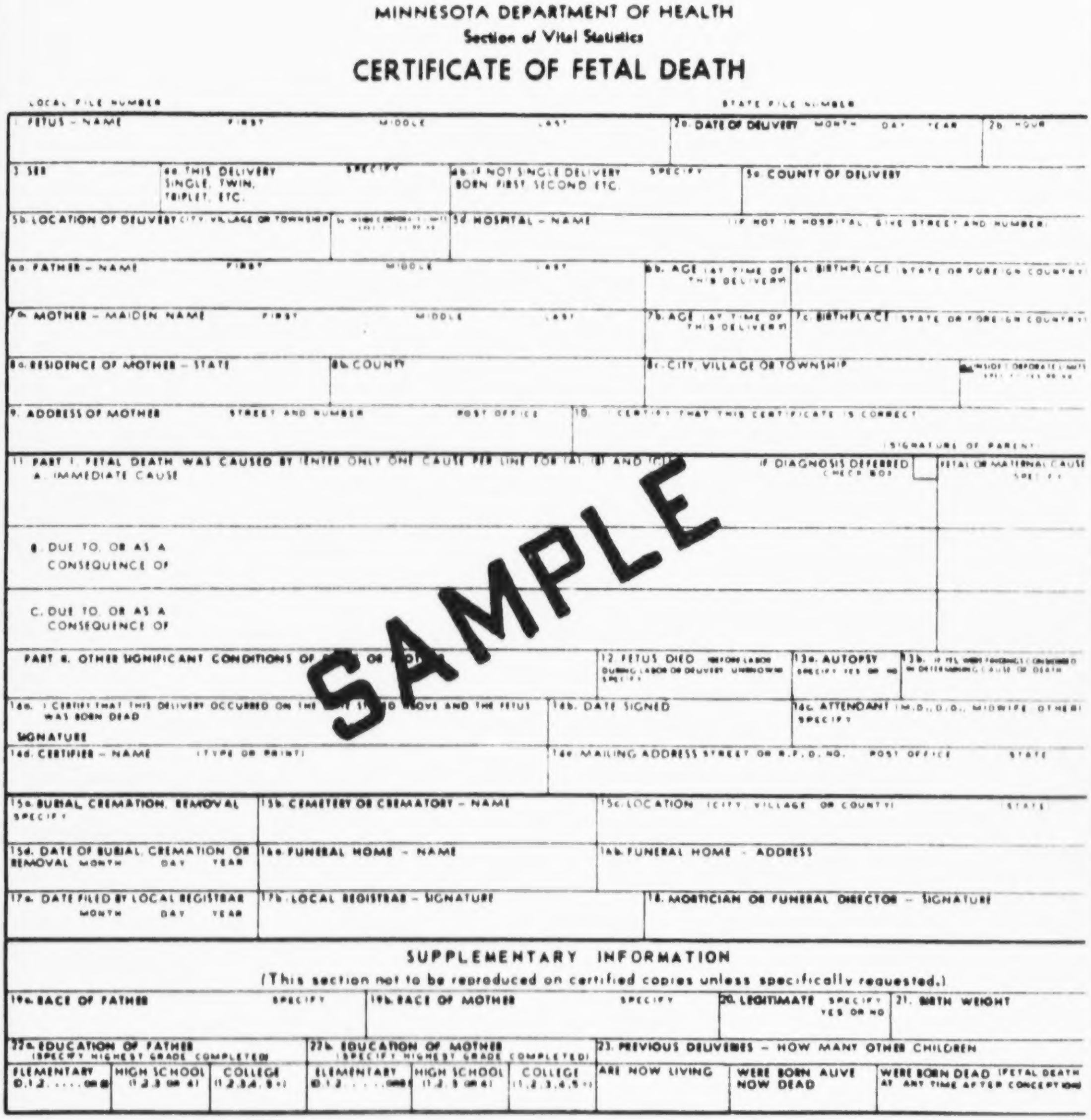
26a. DATE FILED BY LOCAL REGISTRAR MONTH DAY YEAR

26b. **LOCAL REGISTRAR** – SIGNATURE

27. **MORTICIAN OR FUNERAL DIRECTOR** – SIGNATURE

SAMPLE

FIGURE 10



MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics

CERTIFICATE OF FETAL DEATH

LOCAL FILE NUMBER
STATE FILE NUMBER

1. FETUS – NAME FIRST MIDDLE LAST
2a. DATE OF DELIVERY MONTH DAY YEAR
2b. HOUR

3. SEX
4a. THIS DELIVERY SINGLE, TWIN, TRIPLET, ETC. SPECIFY
4b. IF NOT SINGLE DELIVERY BORN FIRST, SECOND, ETC. SPECIFY
5a. COUNTY OF DELIVERY

5b. LOCATION OF DELIVERY CITY, VILLAGE OR TOWNSHIP
5c.
5d. HOSPITAL – NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)

6a. FATHER – NAME FIRST MIDDLE LAST
6b. AGE (AT TIME OF THIS DELIVERY)
6c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)

7a. MOTHER – MAIDEN NAME FIRST MIDDLE LAST
7b. AGE (AT TIME OF THIS DELIVERY)
7c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)

8a. RESIDENCE OF MOTHER – STATE
8b. COUNTY
8c. CITY, VILLAGE OR TOWNSHIP
8d. INSIDE CORPORATE LIMITS

9. ADDRESS OF MOTHER STREET AND NUMBER POST OFFICE
10. I CERTIFY THAT THIS CERTIFICATE IS CORRECT
(SIGNATURE OF PARENT)

11. PART I. FETAL DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE FOR (A), (B) AND (C))
A. IMMEDIATE CAUSE
IF DIAGNOSIS DEFERRED CHECK BOX ☐
FETAL OR MATERNAL CAUSE SPECIFY

B. DUE TO, OR AS A CONSEQUENCE OF

C. DUE TO, OR AS A CONSEQUENCE OF

SAMPLE

PART II. OTHER SIGNIFICANT CONDITIONS OF [illegible] OR [illegible]
12. FETUS DIED BEFORE LABOR, DURING LABOR OR DELIVERY, UNKNOWN SPECIFY
13a. AUTOPSY SPECIFY YES OR NO
13b. IF YES, WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH

14a. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE [illegible] ABOVE AND THE FETUS WAS BORN DEAD
SIGNATURE
14b. DATE SIGNED
14c. ATTENDANT (M.D., D.O., MIDWIFE, OTHER) SPECIFY

14d. CERTIFIER – NAME (TYPE OR PRINT)
14e. MAILING ADDRESS STREET OR R.F.D. NO. POST OFFICE STATE

15a. BURIAL, CREMATION, REMOVAL SPECIFY
15b. CEMETERY OR CREMATORY – NAME
15c. LOCATION (CITY, VILLAGE OR COUNTY) STATE

15d. DATE OF BURIAL, CREMATION OR REMOVAL MONTH DAY YEAR
16a. FUNERAL HOME – NAME
16b. FUNERAL HOME – ADDRESS

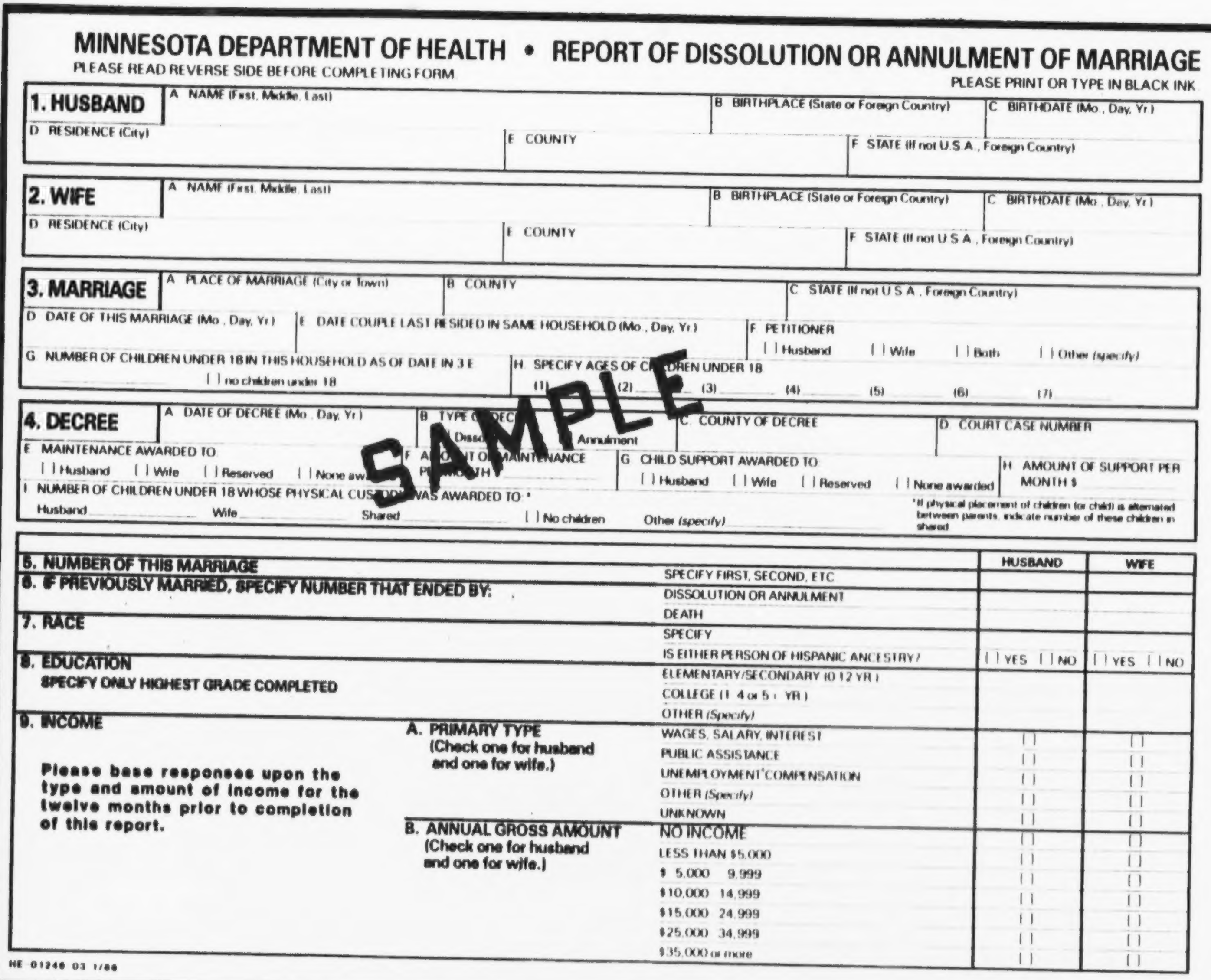
17a. DATE FILED BY LOCAL REGISTRAR MONTH DAY YEAR
17b. LOCAL REGISTRAR – SIGNATURE
18. MORTICIAN OR FUNERAL DIRECTOR – SIGNATURE

SUPPLEMENTARY INFORMATION

(This section not to be reproduced on certified copies unless specifically requested.)

19a. RACE OF FATHER SPECIFY
19b. RACE OF MOTHER SPECIFY
20. LEGITIMATE SPECIFY YES OR NO
21. BIRTH WEIGHT

22a. EDUCATION OF FATHER (SPECIFY HIGHEST GRADE COMPLETED)
ELEMENTARY (0,1,2, ... OR 8) HIGH SCHOOL (1,2,3 OR 4) COLLEGE (1,2,3,4, 5+)
22b. EDUCATION OF MOTHER (SPECIFY HIGHEST GRADE COMPLETED)
ELEMENTARY (0,1,2, ... OR 8) HIGH SCHOOL (1,2,3 OR 4) COLLEGE (1,2,3,4,5+)
23. PREVIOUS DELIVERIES – HOW MANY OTHER CHILDREN
ARE NOW LIVING
WERE BORN ALIVE NOW DEAD
WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION)



MINNESOTA DEPARTMENT OF HEALTH • REPORT OF DISSOLUTION OR ANNULMENT OF MARRIAGE

PLEASE READ REVERSE SIDE BEFORE COMPLETING FORM

PLEASE PRINT OR TYPE IN BLACK INK

1. HUSBAND
A NAME (First, Middle, Last)
B BIRTHPLACE (State or Foreign Country)
C BIRTHDATE (Mo., Day, Yr.)
D RESIDENCE (City)
E COUNTY
F STATE (If not U.S.A., Foreign Country)

2. WIFE
A NAME (First, Middle, Last)
B BIRTHPLACE (State or Foreign Country)
C BIRTHDATE (Mo., Day, Yr.)
D RESIDENCE (City)
E COUNTY
F STATE (If not U.S.A., Foreign Country)

3. MARRIAGE
A PLACE OF MARRIAGE (City or Town)
B COUNTY
C STATE (If not U.S.A., Foreign Country)
D DATE OF THIS MARRIAGE (Mo., Day, Yr.)
E DATE COUPLE LAST RESIDED IN SAME HOUSEHOLD (Mo., Day, Yr.)
F PETITIONER ☐ Husband ☐ Wife ☐ Both ☐ Other *(specify)*
G NUMBER OF CHILDREN UNDER 18 IN THIS HOUSEHOLD AS OF DATE IN 3 E ______ ☐ no children under 18
H SPECIFY AGES OF C[illegible]DREN UNDER 18 (1) ______ (2) ______ (3) ______ (4) ______ (5) ______ (6) ______ (7) ______

4. DECREE
A DATE OF DECREE (Mo., Day, Yr.)
B TYPE [illegible]DEC[illegible] ☐ Diss[illegible] ☐ Annulment
C COUNTY OF DECREE
D COURT CASE NUMBER
E MAINTENANCE AWARDED TO ☐ Husband ☐ Wife ☐ Reserved ☐ None aw[illegible]
F A[illegible]T OF MAINTENANCE PE[illegible]TH $ ______
G CHILD SUPPORT AWARDED TO ☐ Husband ☐ Wife ☐ Reserved ☐ None awarded
H AMOUNT OF SUPPORT PER MONTH $ ______
I NUMBER OF CHILDREN UNDER 18 WHOSE PHYSICAL CUST[illegible]WAS AWARDED TO: *
Husband ______ Wife ______ Shared ______ ☐ No children Other *(specify)* ______

*If physical placement of children (or child) is alternated between parents, indicate number of these children in shared

SAMPLE

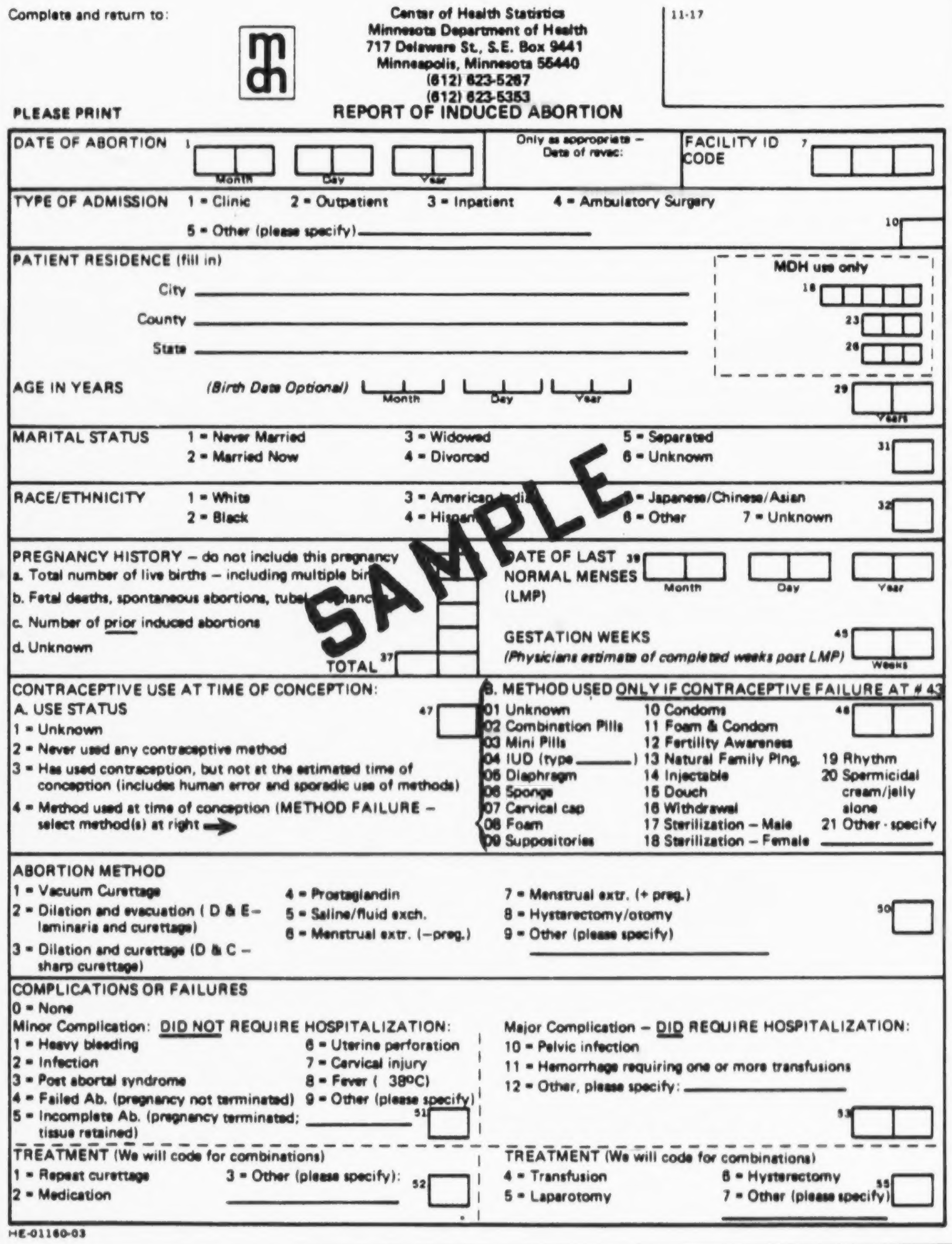
		HUSBAND	WIFE
5. NUMBER OF THIS MARRIAGE	SPECIFY FIRST, SECOND, ETC		
6. IF PREVIOUSLY MARRIED, SPECIFY NUMBER THAT ENDED BY:	DISSOLUTION OR ANNULMENT		
	DEATH		
7. RACE	SPECIFY		
	IS EITHER PERSON OF HISPANIC ANCESTRY?	☐ YES ☐ NO	☐ YES ☐ NO
8. EDUCATION **SPECIFY ONLY HIGHEST GRADE COMPLETED**	ELEMENTARY/SECONDARY (0-12 YR.)		
	COLLEGE (1-4 or 5+ YR.)		
	OTHER *(Specify)*		
9. INCOME — **A. PRIMARY TYPE (Check one for husband and one for wife.)**	WAGES, SALARY, INTEREST	☐	☐
	PUBLIC ASSISTANCE	☐	☐
	UNEMPLOYMENT COMPENSATION	☐	☐
	OTHER *(Specify)*	☐	☐
	UNKNOWN	☐	☐
B. ANNUAL GROSS AMOUNT (Check one for husband and one for wife.)	NO INCOME	☐	☐
	LESS THAN $5,000	☐	☐
	$ 5,000 - 9,999	☐	☐
	$10,000 - 14,999	☐	☐
	$15,000 - 24,999	☐	☐
	$25,000 - 34,999	☐	☐
	$35,000 or more	☐	☐

Please base responses upon the type and amount of income for the twelve months prior to completion of this report.

HE 01246 03 1/86

FIGURE 11

FIGURE 12



Complete and return to:

Center of Health Statistics
Minnesota Department of Health
717 Delaware St., S.E. Box 9441
Minneapolis, Minnesota 55440
(612) 623-5267
(612) 623-5353

11-17

PLEASE PRINT

REPORT OF INDUCED ABORTION

DATE OF ABORTION	1 ☐☐ Month ☐☐ Day ☐☐ Year	Only as appropriate – Date of revac:	FACILITY ID CODE 7 ☐☐☐

TYPE OF ADMISSION 1 = Clinic 2 = Outpatient 3 = Inpatient 4 = Ambulatory Surgery
5 = Other (please specify) ______ 10 ☐

PATIENT RESIDENCE (fill in)
City ______
County ______
State ______

MDH use only
18 ☐☐☐☐☐
23 ☐☐☐
26 ☐☐☐

AGE IN YEARS *(Birth Date Optional)* Month Day Year 29 ☐☐ Years

MARITAL STATUS 31 ☐
1 = Never Married
2 = Married Now
3 = Widowed
4 = Divorced
5 = Separated
6 = Unknown

RACE/ETHNICITY 32 ☐
1 = White
2 = Black
3 = American Indi
4 = Hispan
5 = Japanese/Chinese/Asian
6 = Other
7 = Unknown

SAMPLE

PREGNANCY HISTORY – do not include this pregnancy
a. Total number of live births – including multiple bir ☐
b. Fetal deaths, spontaneous abortions, tubal pregnanc ☐
c. Number of prior induced abortions ☐
d. Unknown ☐
TOTAL 37 ☐☐

DATE OF LAST NORMAL MENSES (LMP) 39 ☐☐ Month ☐☐ Day ☐☐ Year

GESTATION WEEKS *(Physicians estimate of completed weeks post LMP)* 45 ☐☐ Weeks

CONTRACEPTIVE USE AT TIME OF CONCEPTION:

A. USE STATUS 47 ☐
1 = Unknown
2 = Never used any contraceptive method
3 = Has used contraception, but not at the estimated time of conception (includes human error and sporadic use of methods)
4 = Method used at time of conception (METHOD FAILURE – select method(s) at right →

B. METHOD USED ONLY IF CONTRACEPTIVE FAILURE AT # 43 48 ☐☐
01 Unknown
02 Combination Pills
03 Mini Pills
04 IUD (type ______)
05 Diaphragm
06 Sponge
07 Cervical cap
08 Foam
09 Suppositories
10 Condoms
11 Foam & Condom
12 Fertility Awareness
13 Natural Family Plng.
14 Injectable
15 Douch
16 Withdrawal
17 Sterilization – Male
18 Sterilization – Female
19 Rhythm
20 Spermicidal cream/jelly alone
21 Other - specify ______

ABORTION METHOD 50 ☐
1 = Vacuum Curettage
2 = Dilation and evacuation (D & E– laminaria and curettage)
3 = Dilation and curettage (D & C – sharp curettage)
4 = Prostaglandin
5 = Saline/fluid exch.
6 = Menstrual extr. (–preg.)
7 = Menstrual extr. (+ preg.)
8 = Hysterectomy/otomy
9 = Other (please specify) ______

COMPLICATIONS OR FAILURES
0 = None

Minor Complication: DID NOT REQUIRE HOSPITALIZATION: 51 ☐
1 = Heavy bleeding
2 = Infection
3 = Post abortal syndrome
4 = Failed Ab. (pregnancy not terminated)
5 = Incomplete Ab. (pregnancy terminated; tissue retained)
6 = Uterine perforation
7 = Cervical injury
8 = Fever (38°C)
9 = Other (please specify) ______

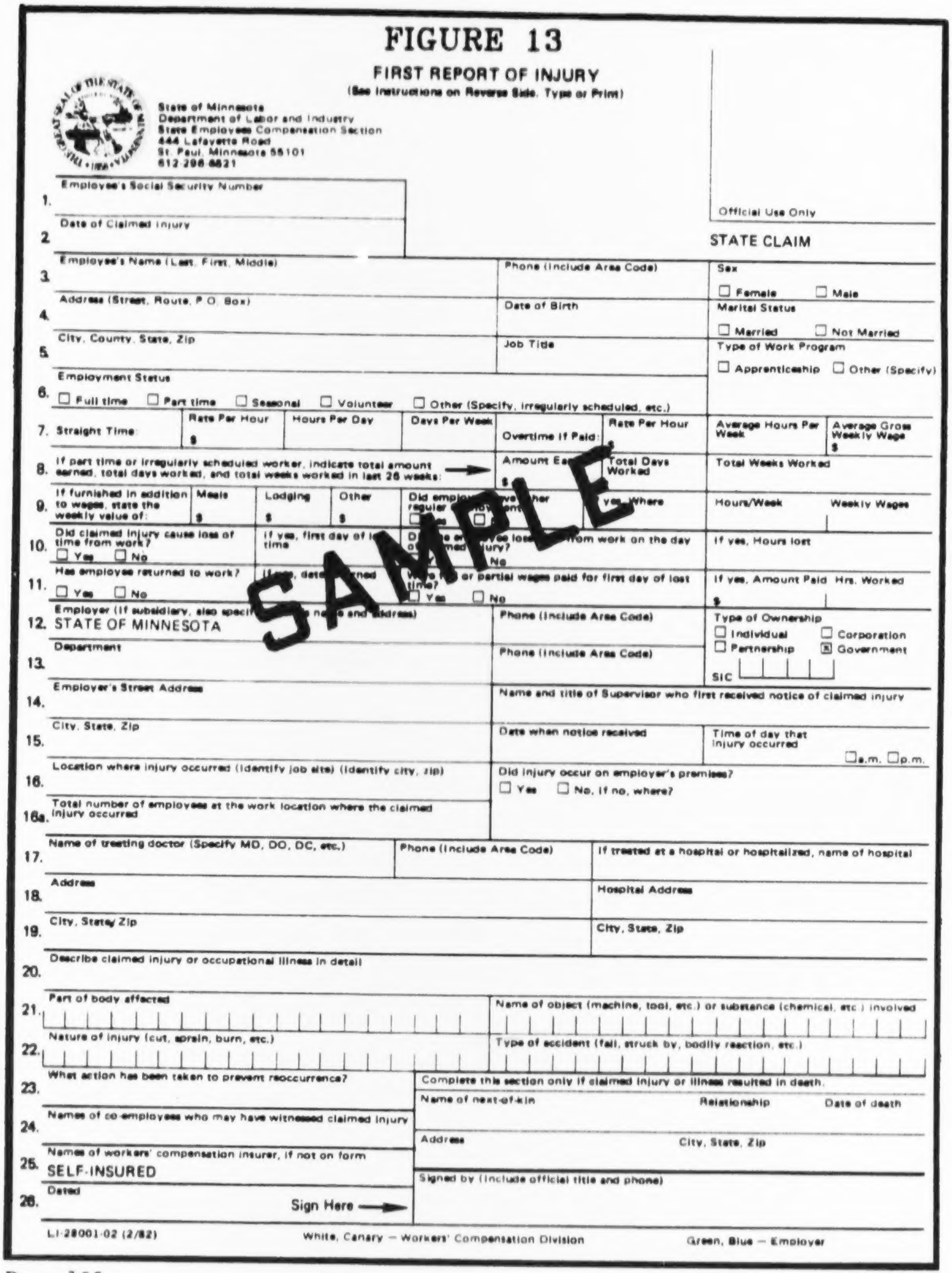
Major Complication – DID REQUIRE HOSPITALIZATION: 53 ☐☐
10 = Pelvic infection
11 = Hemorrhage requiring one or more transfusions
12 = Other, please specify: ______

TREATMENT (We will code for combinations) 52 ☐
1 = Repeat curettage
2 = Medication
3 = Other (please specify): ______

TREATMENT (We will code for combinations) 55 ☐
4 = Transfusion
5 = Laparotomy
6 = Hysterectomy
7 = Other (please specify) ______

HE-01160-03

FIGURE 13



FIRST REPORT OF INJURY

(See Instructions on Reverse Side. Type or Print)

State of Minnesota
Department of Labor and Industry
State Employees Compensation Section
444 Lafayette Road
St. Paul, Minnesota 55101
612-296-6821

Official Use Only

STATE CLAIM

1. Employee's Social Security Number
2. Date of Claimed Injury
3. Employee's Name (Last, First, Middle) | Phone (Include Area Code) | Sex ☐ Female ☐ Male
4. Address (Street, Route, P.O. Box) | Date of Birth | Marital Status ☐ Married ☐ Not Married
5. City, County, State, Zip | Job Title | Type of Work Program ☐ Apprenticeship ☐ Other (Specify)
6. Employment Status ☐ Full time ☐ Part time ☐ Seasonal ☐ Volunteer ☐ Other (Specify, irregularly scheduled, etc.)
7. Straight Time: Rate Per Hour $ | Hours Per Day | Days Per Week | Overtime If Paid: Rate Per Hour $ | Average Hours Per Week | Average Gross Weekly Wage $
8. If part time or irregularly scheduled worker, indicate total amount earned, total days worked, and total weeks worked in last 26 weeks: → Amount Ea[illegible] $ | Total Days Worked | Total Weeks Worked
9. If furnished in addition to wages, state the weekly value of: Meals $ | Lodging $ | Other $ | Did emplo[illegible] ve [illegible] her regular [illegible] ent ☐ [illegible] ☐ [illegible] | [illegible] yes, Where | Hours/Week | Weekly Wages
10. Did claimed injury cause loss of time from work? ☐ Yes ☐ No | If yes, first day of l[illegible] time | D[illegible] e[illegible] ye los[illegible] from work on the day o[illegible] med [illegible] ury? ☐ [illegible] ☐ No | If yes, Hours lost
11. Has employee returned to work? ☐ Yes ☐ No | If [illegible], dat[illegible] rned | W[illegible] or partial wages paid for first day of lost time? ☐ Yes ☐ No | If yes, Amount Paid $ | Hrs. Worked
12. Employer (If subsidiary, also speci[illegible] n[illegible] e and address) STATE OF MINNESOTA | Phone (Include Area Code) | Type of Ownership ☐ Individual ☐ Corporation ☐ Partnership ☒ Government

SAMPLE

13. Department | Phone (Include Area Code) | SIC
14. Employer's Street Address | Name and title of Supervisor who first received notice of claimed injury
15. City, State, Zip | Date when notice received | Time of day that injury occurred ☐ a.m. ☐ p.m.
16. Location where injury occurred (identify job site) (identify city, zip) | Did injury occur on employer's premises? ☐ Yes ☐ No, if no, where?
16a. Total number of employees at the work location where the claimed injury occurred
17. Name of treating doctor (Specify MD, DO, DC, etc.) | Phone (Include Area Code) | If treated at a hospital or hospitalized, name of hospital
18. Address | Hospital Address
19. City, State, Zip | City, State, Zip
20. Describe claimed injury or occupational illness in detail
21. Part of body affected | Name of object (machine, tool, etc.) or substance (chemical, etc.) involved
22. Nature of injury (cut, sprain, burn, etc.) | Type of accident (fall, struck by, bodily reaction, etc.)
23. What action has been taken to prevent reoccurrence?
24. Names of co-employees who may have witnessed claimed injury
25. Names of workers' compensation insurer, if not on form SELF-INSURED
26. Dated Sign Here →

Complete this section only if claimed injury or illness resulted in death.

Name of next-of-kin | Relationship | Date of death

Address | City, State, Zip

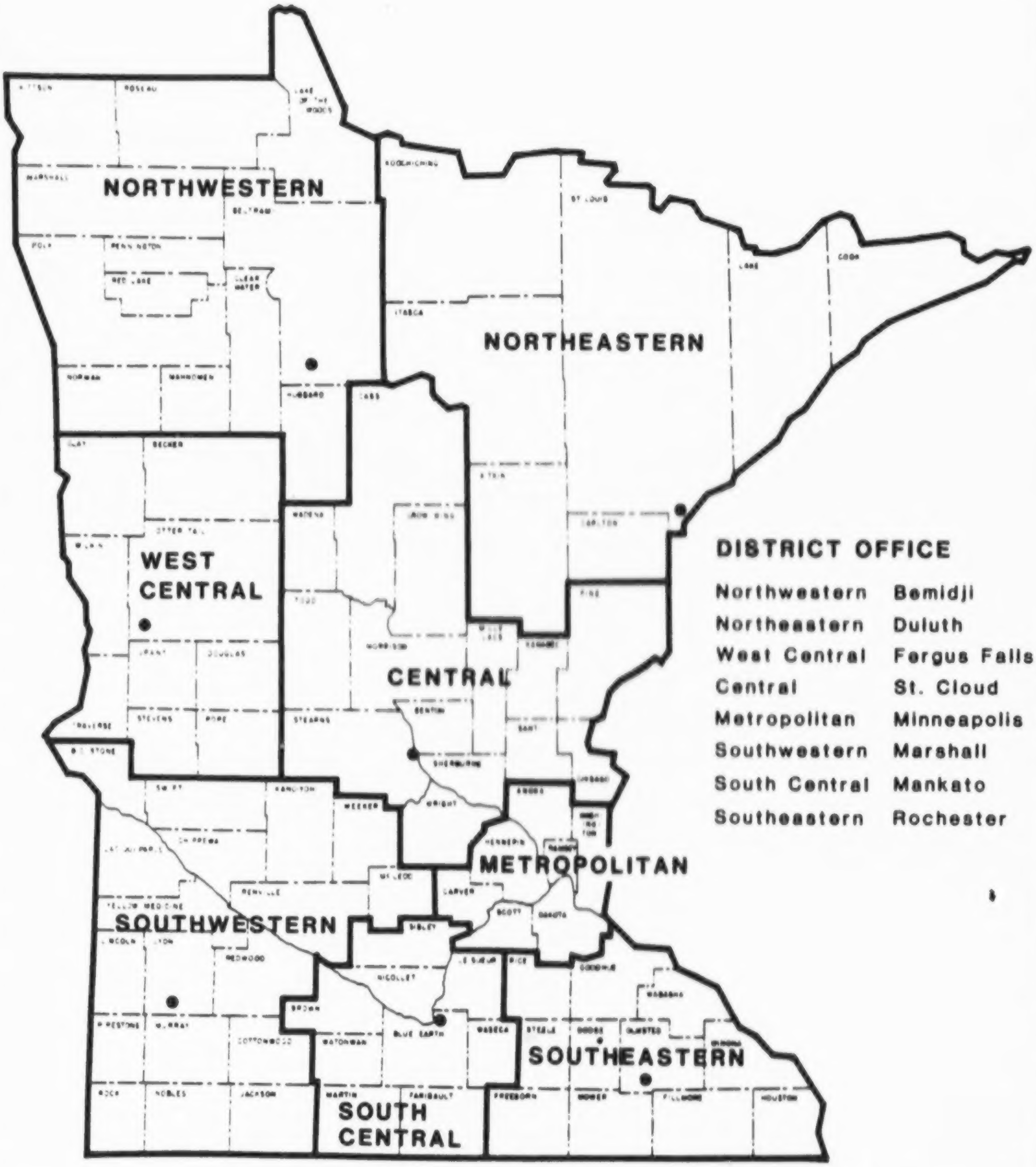
Signed by (Include official title and phone)

LI-28001-02 (2/82) White, Canary — Workers' Compensation Division Green, Blue — Employer

APPENDIX C

MAP OF HEALTH DISTRICTS AND OFFICES

Figure 14
Health Districts and Offices


NORTHWESTERN
NORTHEASTERN
WEST CENTRAL
CENTRAL
METROPOLITAN
SOUTHWESTERN
SOUTH CENTRAL
SOUTHEASTERN
KITTSON
ROSEAU
LAKE OF THE WOODS
MARSHALL
BELTRAMI
KOOCHICHING
ST. LOUIS
LAKE
COOK
POLK
PENNINGTON
RED LAKE
CLEAR WATER
ITASCA
NORMAN
MAHNOMEN
HUBBARD
CASS
CLAY
BECKER
AITKIN
CARLTON
WADENA
CROW WING
OTTER TAIL
WILKIN
TODD
PINE
MILLE LACS
KANABEC
GRANT
DOUGLAS
MORRISON
BENTON
TRAVERSE
STEVENS
POPE
STEARNS
ISANTI
BIG STONE
SHERBURNE
CHISAGO
SWIFT
KANDIYOHI
ANOKA
WASHINGTON
MEEKER
WRIGHT
HENNEPIN
RAMSEY
LAC QUI PARLE
CHIPPEWA
RENVILLE
MC LEOD
CARVER
SCOTT
DAKOTA
YELLOW MEDICINE
LINCOLN
LYON
REDWOOD
SIBLEY
LE SUEUR
RICE
GOODHUE
NICOLLET
WABASHA
BROWN
PIPESTONE
MURRAY
COTTONWOOD
WATONWAN
BLUE EARTH
WASECA
STEELE
DODGE
OLMSTED
WINONA
ROCK
NOBLES
JACKSON
MARTIN
FARIBAULT
FREEBORN
MOWER
FILLMORE
HOUSTON

DISTRICT OFFICE

Northwestern	Bemidji
Northeastern	Duluth
West Central	Fergus Falls
Central	St. Cloud
Metropolitan	Minneapolis
Southwestern	Marshall
South Central	Mankato
Southeastern	Rochester

Minnesota Department of Health - [illegible]